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USAFETAC/DS-79/066

DATA PROCESSING BRANCH **USAFETAC** Air Weather Service (MAC)

REVISED UNIFORM SUMMARY OF SURFACE WEATHER OBSERVATIONS

RHEIN-MAIN APT GERMANY/FRANKFURT WHAN# 35032 N 50 02 E 008 34 FLD ELEV 368 FT EDDF WWO# 10637 RHEIN-MAIN APT GERMANY/FRANKFURT

PARTS A-F

POR FROM HOURLY OBS:

JAN 67-DEC 76

POR FROM DAILY OBS:

SEP 46-DEC 67

AUG 1 8 1977

FEDERAL BUILDING ASHEVILLE, N. C.

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This report approved for public "lease. There is no objection to unlimited distribution of this report to the public at large, or by DDC to the National Technical Information Service (NTIS).

This technical report has been reviewed and is approved for publication.

Parl O. Bower Je

CARL A. BOWER, JR Chief, Data Reference Section Climatological Services Branch

FOR THE COMMANDER

WALTER'S. BURGMANN C Scientific & Technical Information Officer

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15 SECURITY CLASS. (of this report) 4 MONITORING AGENCY NAME & ADDRESS/II dillerent tram Controlline Office) UNCLASSIFIED 15. DECLASSIFICATION DOWNGRADING

16. DISTRIBUTION STATEMENT (of this Report)

Approved for public release; distribution unlimited.

18. SUPPLEMENTARY NOTES

19 KEY WORDS (Continue on reverse side If necessary and identify by block number)

*RUSSWO Daily temperature Atmospheric pressure Snowfall Extreme snow depth Extreme surface winds Sea-level pressure Climatology Psychrometric summary Surface Winds Extreme temperature Ceiling versus visibility Relative humidity *Climatological data (over)

This report is a six-part statistical summary of surface weather observations for Rhein-Main Apt, Frankfurt, Germany

It contains the following parts: (A) Weather Conditions; Atmospheric Phenomena; (B) Precipitation, Snowfall and Snow Depth (daily amounts and extreme values); (C) Surface winds; (D) Ceiling Versus Visibility; Sky Cover; (E) Psychrometric Summaries (daily maximum and minimum temperatures, extreme maximum and minimum temperatures, psychrometric summary of wet-bulb temperature depression versus dry-bulb temperature, means and standard deviations of dry-bulb, wet-bulb (over)

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- 19. Percentage frequency of distribution tables Dry-bulb temperature versus wet-bulb temperature Cumulative percentage frequency of distribution tables
 - ⋆ Germany

- * Rhein-Main Apt, Germany
- 20. and dew-point temperatures and relative humidity); ard (F) Pressure Summary (means, standard, deviations, and observation counts of station pressure and sea-level pressure). Data in this report are presented in tabular form, in most cases in percentage frequency of occurrence or cumulative percentage frequency of occurrence tables.

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U S AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER

REVISED UNIFORM SUMMARY OF SURFACE WEATHER OBSERVATIONS

HOURLY OBSERVATIONS

Hourly observations are defined as those record or record-special observations recorded at scheduled hourly intervals.

DAILY OBSERVATIONS

Daily observations are selected from all data recorded on reporting forms and combined into Summary of the Day observations. (Selected from record-special, local, summary of the day, remarks, etc.)

DESCRIPTION OF SUMMARIES

Preceding each section is a brief description of the data comprising each part of the Revised Uniform Summary of Surface Weather Observations and the manner of presentation. Tabulations are prepared from hourly and daily observations recorded by stations operated by the U. S. Services and some foreign stations using similar reporting practices.

Unless otherwise noted the following summaries are included for this station:

PART A WEATHER CONDITIONS

ATMOSPHERIC PHENOMENA

PART B PRECIPITATION

SNOWFALL

SNOW DEPTH

PARTC SURFACE WINDS

PART D CEILING VERSUS VISIBILITY

SKYCOVER

PART E DAILY MAX, MIN, & MEAN TEMP

EXTREME MAX & MIN TEMP

PSYCHROMETRIC-DRY VS WET BULB

MEAN & STD DEV .

(DRY BULB, WET BULB, & DEW POINT)

RELATIVE HUMIDITY

PART F STATION PRESSURE

SEA LEVEL PRESSURE

STANDARD 3-HOUR GROUPS

All summaries requiring diurnal variations are summarized in eight 3-hour periods corresponding to the following sets of hourly observations: 0000-0200, 0300-0500, 0600-0800, 0900-1100, 1200-1400, 1500-1700, 1800-2000, 2100-2300 hours local standard time.

MISSING HOUR GROUPS

Summary sheets are omitted when stations maintaining limited observing schedules did not report certain three-hour periods for any particular mouth during the available period of record. Such missing sheets are listed below, and are applicable to all summaries prepared from hourly observations.

JANUARY	APRIL	JULY	OCTOBER
FEBRUARY	MAY	AUGUST	NOVEMBER
MARCH	JUNE	SEPTEMBER	DECEMBER

374-29956

TATION N	10 ON SUMMARY)32	STATION NAME RHEIN-MAIN APT/FRANKFURT G	ER	N 50		ONSITUDE E 008 34	FIELD ELEV (ODF	10637
····	~~~~~	STATION LOCATION	ON A	ND IN	STRU	MENT	ATION	HIST	ORY	<u></u>
UMBER OF DCATION	•	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LO	CATION	LATITUDE	LONGITUDE	ELEVATION FIELD (FT)	HT, BARO.	OBS PER DAT
1 2 3 4 5 6	Same Same Same Same	in Frankfurt Germany	Same AB Same Same	Oct 47 Jul 48 Aug 51 Apr 54	Sep 47 Jun 48 Jul 51 Har 54 Mar 62 Dec 76	N 50 02 Same Same Same Same	E 008 35 Same Same Same E008 34	361 Same Same Same 366 Ft	369 Ft 364 376 Same 368 Same	24 24 24 24 24 24 24
NUMBER OF OCATION	DATE OF CHANCE	SURFACE WIND	EQUIPMENT	TYPE OF	TYPE OF	HT ABOVE	REMARKS. AD	DITIONAL EQUIP	MENT, OR RE	ISON FOR CHANGE
1 2 3 4 5 6 7 8	Sep 46 Nov 46 Dec 46 Apr 47 Jul 48 Apr 62: Dec 70 Dec 75	Located 2nd Floor of Operations Same Located 2nd Floor of New Telling Bldg. Located on Hangar W of new bldg. Located on the ROS N/A N/A Same	erminal	Same Same	None Same Same Same	40 Pt 57 Pt Same 40 Pt 40 Pt 43 Pt 30 Pt 162 13 Ft Same				
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U S AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER

PART A

WEATHER CONDITIONS

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from hourly observations, and is presented in two tables as follows:

- 1. By month and annual, all hours and years combined.
- 2. By month, all years combined, by standard 3-hour groups.

A percent value of ".0" in these tables indicates less than .05 percent, which is usually only one occurrence. The various phenomena included in each category on the forms are listed below:

Thunderstorms - All reported occurrences of thunderstorm, tornado, and waterspout.

Rain and/or drizzle - All liquid precipitation, falling to the ground, not freezing.

Freezing rain and/or freezing drizzle (glase) - Precipitation falling in liquid form, but freezing on contact with an unheated surface.

Snow and/or sleet (ice pellets) - Included are snow, snow pellets, sleet, snow grains, ice crystals, and ice pellets from Jan 68 and later. (Snow pellets also known as soft hail)

Hail - Occurrences of hail and small hail are included.

Percentage of observations with precipitation - Included in this category are the observations when one or more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same observation, the sums of the individual categories may exceed the percentages of the observations with precip.

Fog - Included are fog, ice fog, and ground fog.

Smoke and/or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.

Blowing snow - Occurrences of blowing snow (also drifting snow when reported from non-WBAH sources).

Dust and/or sand - Included are blowing dust, blowing sand, and dust.

Continued on Reverse

Blowing spray - This item if reported, is not shown in a separate category on this form but is included in the computation Percentage of Observations with Obstructions to Vision, below.

Percentage of observations with obstructions to vision - Included in this category are the observations when one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage total columns. Also, although precipitation may reduce visibility, it is not considered an obstruction to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not reflect the total observations with reduced visibility.

WEATHER CONDITIONS

35032 RHEIN-MAIN AST GERMANY/ERANKEURT 67-76 YEARS

PERCENTAGE FREQUENCY OF UCCURRENCE OF WEATHER CONDITIONS FROM HOURLY ORSERVATIONS

HTMOM	HOURS (LS T.)	THUNDER- STORMS	RAIN AND/OR CRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS.
1V+	_ALL	0	12.4	. 8	6.4		19.1	16.7	7	1		17.5	7177
_ FEb			10.2	2	5_0		14.8	10.6	6	al		11.3	6515
846			_11.1		2.5		13.1	5.9	1.8			7.7	7117
ΛPR		1	12.8		4		13.0	3.2	6			3.3	6833
÷ΙΔΥ		.7	11.5		0	•0	11.6	4.7	7			5.4	7046
JUi÷		1.0	9.6				9.6	4:4	5			4.9	6827
		1.0	_6.4			· · · · · · · · ·	.6.4	4.6	1.4			۵٫۵	6913
AUG		1.2	8.4				я 4	7. 2	1.3			2.5	7049
SEP		3	8.3				8.3	14.8	1.7			16.5	6818_
nct			12.4				12.4	22.4	5		0	23.9	7055
NOV			15.5	1	2.5		17.3	20.1	6			20.7	6852
DEC			1100	.7	6.5		17.3	22.3	_1.6			23.9	7126
TOTALS		.4	10.8	.2	1 . 9	•0	12.6		1.1	•0	0		83328

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WEATHER CONDITIONS

35032 STATION RHEIN-MAIN APT GERMANY/FRANKFURT

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PERCENTAGE FREQUENCY OF UCCURRENCE OF WEATHER CONVITIONS FROM HOURLY DRSFRVATIONS

нтиом	HOURS (LST.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	rog	SMOKE AND/OR HAZE	BLOWING 5 HOW	DUST AND/OR SAND	% OF OBS WI-1 OBST TO VISION	TOTAL NO. OF OBS.
JAiv	00-02		12.6	8	6.0		18.9	15.4	.1	• 1		15.6	8 39
	03-05		_12,3	1.2	7.2		20.0	18.6		2		14.8	899
	06-08		13,3	1.2	6.7		20.9	21.2				21.2	899
	09-11		12.B	6	7.0		20.2	21.0	1.0			22.0	904
	12-14		12.5	a	6.6		19.2	14.7	2.6			17.3	897
<u>, </u>	15-17		_11.8	3	6.4		18.3	13.6	1.7			15.3	899
	18-20	1	_11.7	3	5.7	1	17.5	14.2	1	1		14.5	899
	21-23		11.3	1_0	5.3		17.6	_15,0		3		15.3	901
													<u></u>
TOTALS		.0	12.4	8	- 6.4	۰۵	19.1	16.7	.7	.1		17.5	7177

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WEATHER CONDITIONS

35032	RHEIN-MAIN APT GERMANY FRANKFURT	1.7 -7 6_	FFB
35032	RHEIN-MAIN APT GERMANY FRANKFURT	YEARS	HINOM

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

нтиом	HOURS (LS.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	fOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS.
FEB	00=02		9,9		4.7		14.0	14.8	5			15.3	809
	03-05		9.2	2	5.3		14.1	14.9				14.9	811
	06=08		9.5	4	6.7		15.9	18.4	2	1		18.8	810
	09-11		10.2	1	7.4		16.6	12.2	0			13.4	814
	12-14		_11.2	6	4.3		15,5	3.9				5.0	813
	15-17		9,1	2	5.0		14.0	3.9	1.2			5.2	815
	18-20		12.1	2	3.1	· · · · · · · · · · · · · · · · · · ·	15.0	6.2	4	1	<u>, </u>	6.7	819
	21-23		10.3		3,2		13.1	10.6	6		<u></u>	11.3	824
													
TOTALS			10.2	,2	5.0		14.8	10.6	•6	.1		11.3	6515

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WEATHER CONDITIONS

35032 RHEIN-MAIN ADT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

монтн	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SHOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HA7E	8LOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
_ MAB_	00-02		10.2		2.3		12,2	9.7	. 9			10.6	875
	03-05		11.8		4.8		15.7	10.0	3			10.3	892
	06-08		11.3		5.0		15.3	12.A	1.8			14.6	897
	09-11		11.4		2.7		13.2	4.1	3.7		<u> </u>	7.8	894
	12-14		11.2			· · · · · · · · · · · · · · · · · · ·	12.6	1	2.3			3.9	896
	15-17	3	10.9		1,1		11.8	6	2.5			3.3	884_
-	18-20		<u></u>		1.0		12.1	2.7	2.1			4.8	900
	21-23		10.8		1.4		11.6	5.2	lal			6.4	879
TOTALS		.0	11.1		2.5		13.1	5.9	1.8			7,7	7117

DATA PROCESSING BRANCH
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35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76.
STATION
WEATHER CONDITIONS
APR
MONTH

PERCENTAGE FREQUENCY OF DCCURRENCE OF WEATHER CONDITIONS FROM HOURLY DRSERVATIONS

нтиом	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	KAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS.
APR	00-02				4		11.2	4.9				4.9	836
	03-05		13.4		2		13.5	8.8				8.8	853
	06-08		14.3		8		14.9	7.9	7			8.6	865
	09-11		_13.2		5		13,5	1.5	1.8			3.3	869
	12-14		11.4		3		11.5	5	1.2			1.6	858
	15-17	8	12.9		6		13,2	2	6			- 8	865
	18=20		13.6		1		13.6	5	4			. 8	847
	21-23		12.5		1		12.5	1.3	- 4			1.7	840
													<u> </u>
TOTALS						 							·
iUIAG	<u> </u>	1	12.8		4		13.0	3.2	- 6			3.8	6833

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WEATHER CONDITIONS

35032 RHEIN-MAIN ADT GERMANY/ERANKEURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY DRSFRVATIONS

нтиом	HOURS (L S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PREGIF.	FOG	SMOKE AND/OR HAZE	SLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS.
МАУ	20-00	. 3	11.2			1	11.3	8.3	1			8.4	865
	03-05	5	12,4				12.4	13.4	1			13.5	088
	06-08	3	12.3				12.3	9.4	1.9			11.3	887
	09-11	2	9.4		.1		<u>9.5</u>	1.0	1.6			2.6	887
	12-14	5	٠,٠			-1	11.1	1	2			3	881
	15-17	2.3	12,2				12,2	3	3			7	878
	18-20	1.0	_11,8				_11.8	1.6				2.4	883
	21-23	6	12.0				12.0	3.4	3			3.7	885
TOTALS		.,7	11:3		<u>کنوپنیو</u> 0	0ء ج	11.6	4.7	,7			5,4	7046

DATA PROCESSING BRANCH
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WEATHER CONDITIONS

35032
3HEIN-MAIN APT GERMANY/FRANKFUPT 67-70
YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FRUM HOURLY OPSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FPEEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIF.	FOG	SMOKE AND/UR HAZE	BLOWING SHOW	DUST AND/OR SAND	A OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
uuu_	00=02	5	B.9				8.9	7.6				7.6	847
	03-05		8.5	ļi			8.6	14.9				14.9	844
	06=08	1	7,1				7.1	8.6	2.0			10.6	861
	-09-11	3	8,6				8.6	1.6	1.6			3.2	865
	12-14	1.1	_11.0				11.0	2				4	346
	15=17	3,5	_13.0			-	13.0		2			- 2	851
	18-20	1.3	10*s				10.2	1	2			3	865
	21-23	7	9,2				9,2	1.9	1			2.0	848
						·							
						*							
													_
TOTALS	-	1.0	9.6			·	9.6	4.6				4.9	6827

USAPETAC JULY 44, 0,10-5(OL A), MENOUS SOTIONS OF THIS TO MARE OBSOLITE

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DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

OF THE IN-MAIN AND GERMANY/FRANKEURT OF THE AND THE AND

нтиом	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
JUL	00-02	1.0	6.4				5.4	6,6				6,9	861
	03-05	1.3	5,7				5.7	15.R	1			15.9	863
	06-08		7.1				7.1	10.3	2.6			13.0	872
	09=11	2	7,4			· · · · · · · · · · · · · · · · · · ·	7.4	3.	3.6			4.4	877
	12-14		7.2				7,2	1	1.4			1.5	848
	15-17	1.6	7,7				7.7	2	1.8			2.1	869
	18=20	1.9	5,1				5.1	7	5			1.2	863
	21-23	1.5	4.9				4.9	2.4	6			3.0	860
													
-													
									-				
TOTALS		1.0	6.4	12 3			6.4	4.6	1.4			6.0	6913

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DATA PROCESSING BRANCH USAF ETAC AIR WEATHER SERVICE/MAC **WEATHER CONDITIONS** G 35032 RHEIN-MAIN ADT GERMANY/ERANKEUPT

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

нтиом	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	\$LOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
AUG	00-02	1.0	8,3			<u>.</u>	8.3	9.7				9.7	854
	03=05	5	7.7				7.7	18.7	1			18.8	878
	06=08		9.0				2.0	18.0	1.5			19.5	882
	09-11	3	7.0				7.0	4.3	4.0			8.3	899
	_12=14	1.7	7,6				7.6		1.6			2.7	876
	15=17	2.7	7,9				7,9	- 2	1.5			1.7	881
	18-20	2.3	9,2				9.2					2.3	881
	21-23	- 1+2	10.4				10.4	4.6	3			5.0	886
TOTALS		1.2	.8.4				8.4	7.2	1.3			8.5	7049

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WEATHER CONDITIONS

35032 RHEIN-MAIN APT GERMANY/FRANKEURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CUNDITIONS FROM HOURLY OBSERVATIONS

TOTALS		<u>,</u> 3	8.3	٥٩			8.3	14.8	1.7			16.5	6818
	21-23	, 4	8,4				8,4	14.2				14.2	844
	18=20	8	-jo•o				10.0	6.0	1.4			7.4	851
	15-17	6	9.4				9.4		2.2			3.1	862
	12-14	1	5.9				5.9	2.1	3.3			5.4	849
-	09-11	1	9.8				Q R	10.4	6.1			16.4	859
	06=08		8.2				9.2	30.9	9			31.8	858
	03-05		7.0	1			7.2	_32.C				32.0	853
SEP	00-02	.5	7.5				7.5	21.9				21.0	842
нтиом	HOURS (LS T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.

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WEATHER CONDITIONS

35032 RHEIN-MAIN ADT GERMANY/FRANKEURT 57-76

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF MEATHER CONDITIONS FROM HOURLY DESERVATIONS

MONTH	HOURS (L.S T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
ОСТ	00=02		11.9				11.9	28.0	1			28.1	857
	03-05		14.5				14.5	30.1				30.1	876
	06-08		15.1				15.1	36.1				36.2	883
	09-11		12.4				12.4	21.6	3.2			24.8	895
	12-14		10.8				10.8	9.4	4.6		1	14.2	879
	15-17	1	13.0				13.0	11.3	3.8		1	15.3	890
	18-20		-10.5				10.5	18.8	1			19.0	886
	21=23	1	11.2				11.2	23.4				_23.5	889
													
OTALS			.12.4				12.4	22.4	1.5		. 0	23.9	7055

USAPETAC ARY 44 0-10-5(OL. A), MENOUS SOMONS OF THE FORM AND CHACLET

WEATHER CONDITIONS

35032 RHEIN-MAIN APT GERMANY/FRANKEUPT 67-76

YEAR

VITION

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY UBSERVATIONS

нтиом	HOURS (LS.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	fOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF ORS WITH OBST TO VISION	TOTAL NO OF OBS
νпν	00-02		14.2		1.7		14.9	22.3	1			22.4	831
	03-05		16.4	5	2.7		18.8	25.7				25.7	874
	06-08		_15.7	3	3.1		18.5	27.6				27.6	870
	09-11		17.1		3.6		19.6	20.2	8			21.1	855
	12-14		14.7	2	2.4		16.7	15.0	2,2			17.2	848
	15-17		13,5		1.6		14.6	15.8	1.4			17.2	850
	18=20		15.4		2.4		16.7	15.9				15.9	866
	21-23		16.7		2.1		18.3	18.4	2			18.6	858
		,											
TOTALS			15.5	.1	2.5		17.3	20.1	6			20.7	6852

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WEATHER CONDITIONS

35032 RHEIN-MAIN ADT GERMANY/FRANKFURT 67-76

YEARS

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY DESERVATIONS

MONTH	HOURS (LS T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	SHC	7/OR	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS.
DEC	00-02		_11.5	1.3	5.1		16.9	23.0	1			23.1	877
	03-05		10.4	1.2	_6.2		17.2	_23.0	3			23.3	901
	06-08		<u> 10-1</u>	9	8.2		18.2	25.3	6			25.8	894
	09-11		11.2	.3	7.7		18.4	24.3	1.8			26.1	891
	12-14		11.1	1	5.9		15,6	19.3	4.6		ļ	23.9	88
	15-17	1	11.5	-1	6.5		17.2	20.3	3.5		<u> </u>	23.8	907
	_18 = 20		_11.4	8	6.B		17,9	- 21-1	1.4			22.4	88
	21=23		- jo.5		5.7		16.6	21.7	8		İ.	22.5	881
TOTALS			_11.0	7	6.5		17.3	22.3	1.6			23.9	712

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PART A

ATMOSPHERIC PHENOMENA

This summary is a presentation of the percentage of days with occurrence of various atmospheric phenomena. These data are obtained from all recorded information on the reporting forms or from hourly data and combined into a daily observation.

The descriptions of the phenomena in the Weather Conditions Summary above also apply for the categories summarized in these daily tabulations. However, it should be noted that in this summary the columns headed "% OF OBS WITH PRECIP" and "% OF OBS WITH OBST TO VISION" show the percentage of days rather than the percentage of observations. Since more than one type of precipitation or more than one type of obstruction may occur in the same daily observation, the sum of the values in the individual categories may differ from the total columns.

A percent value of ".0" in the table indicates less than .05 percent, which is usually only one occurrence.

This presentation is by month with annual totals, and is prepared with all years combined.

- MOTES: (1) A day with rain and/or drizzle was not separately reported in the WBAN data prior to year 1949. Therefore, percentages in this column are restricted to the period Jan 1949 and later.
 - (2) A day with freezing rain and/or freezing drizzle is also properly reported as a day with rain and/or drizzle.
 - (3) A day with dust and/or sand is included in this summary only when visibility is reduced to less than 5/8 mile.

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ATMOSPHERIC PHEND, ENA

PERCENTAGE OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA FROM DAILY DESERVATIONS

REIN-MAIN APT GERMANY/FRANKFURT

нтиом	HOURS (LS T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	fOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	DAILY		50.6	2.9	33.0		68.2	66.1	35.9			76.7	551
FEB		1.0	51.1	2.2	28.0	-	62.4	66.9	44.0	.7		74.7	593
MAR		1.2	44.8		13.4	• (49.0	58.8	49.8			71.0	65
APR		5.1	61.		3.3	• 8	57.3	44.8	32.9		• 2	57.1	630
MAY		12.1	58.		• 5	. 6	53.9	43.9	24.3			51.5	65
JUN		18.3	57.			•(53.9	49.1	25.1			56.R	621
JUL		14.7	54.				51.8	45.3	24.2		•2	53.3	65
AUG		13.7	58.6			• 2	55.1	53.5	27.0		•	59.4	65
SEP		4.1	50.	}		• 2	46.7	69.7	39.			78.d	66
DCT		1.2	50.	3	• 3		46.9	78.0	46.	• 1		84.9	68;
NOV		.3	63.	.2	10.2		63.5	79.1	34.5	.2		83.9	66
DEC		• 3	61.	4.0	24.0	•	66.1	77.3	28.7			82.4	68
TOTALS		5.0			9.4	• 2	56.2	61.0	34.4	• 0	•0	69.1	779

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U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

PART B

PRECIPITATION, SNOWFALL & SNOW DEPTH

This part of the Uniform Summary consists of eight summaries derived from daily observations as follows:

- 1. The first set presents, in three tables, the percentage frequency of various daily amounts of PRECIPITATION, SNOWFALL, and SNOW DEPTH. The daily amount summary is prepared by month and annual, all years combined, and includes percent of days with measurable amounts; percent of days having none, traces, and given amounts; and means, greatest and least monthly amounts. (The last three statistics are omitted from the snow depth summary because of their doubtful and limited value.) A total count of valid observations is given for months and annual. Stations are included in which a portion or all of the period may contain months with missing days. This will be noted on the summary pages. A percent value of ".0" in these daily amount tables indicates less than .05 percent which is usually only one occurrence.
- 2. The second set of three tables presents the extreme daily amounts, by individual year and month, of PRECIPITATION, SNOWFALL, and SNOW DEPTH for the entire period of record available. Also provided are the means and standard deviations for each month and annual (all months) and the total valid observation count. An asterisk (*) is printed in any year-month block when the extreme value is based on an incomplete month (at least one day missing for the month). When a month has valid observations reported but no occurrences, zeros are given in the tables as follows:

EXTREME DAILY PRECIPITATION	".00"	equals none for the month (hundredths)
EXTREME DAILY SHOWFALL	".0"	equals none for the month (tenths)
EXTREME DAILY SHOW DEPTH	"0"	equals none for the month (whole inches)

3. The third set of two tables provides the total monthly amounts of PRECIPITATION and SNOWFALL for each yearmonth and annual. Also prepared are the means, standard deviations, and total number of valid observations for each month and annual (all months). An asterisk (*) is printed in each data block if one or more days are missing for the month. No occurrences for a month are indicated in the same manner as in the extreme tables above. If a trace becomes the extreme or monthly total in any of these tables it is printed as "TRACE."

Continued on Reverse Side

- NOTES: (1) The above studies may also be prepared for stations operating for less than full months for portions or all of the period of record. This may include stations operating 5 or 6 days a week and those with only random days missing. An asterisk (*) in the data blocks will give an indication that a month is incomplete. Please refer to Station History at front of book and observation counts in each summary to evaluate the amounts of data missing.
 - (2) Hail was included in snowfall occurrences in the summary of day observations prior to Jan 56, but these occurrences have been removed from snowfall category and counted as Hail in these summaries.
 - (3) Snow Depth was recorded and punched at various hours during the period available from U. S. operated stations. The hours used by each service for each period are as follows:

Air Force Stations:

U. S. Navy and National Weather Service (USWB)

Beginning thru 1945	at 0800LST	Beginning thru Jun 52	at 0030GMT
Jan 46-May 47	at 1230GMT	Jul 52-May 57	at 1230GMT
Jun 57-present	at 1200GMT	Jun 57-present	at 1200GMT

DAILY AMOUNTS

PERCENTAGE EREQUENCY OF (FROM DAILY OBSERVATIONS)

35032

REIN-MAIN APT GERMANY/FRANKFURT

						AM	OUNTS (II	NCHES)						PERCENT		MON	THLY AMO	SINUC
PRECIP.	NONE	TRACE	.01	.02- 05	0610	.1125	.26- 50	.51100	; 21-2 50	2.51-5 00	5 01-10 00	10 01-20 00	OVER 20 00	OF DAYS	TOTAL NO.		(INCHES)	
SHOWFALL	HONE	TRACE	01-04	0.5-1 4	1.5-2-4	2.5-3 4	3.5.4.4	4 5.6 4	4.5-10 4	10 5 15 4	15.5-25 4	25 5-50 4	OVER 50 4	MEASUR-	OF OBS	MEAN	GREATEST	LEAST
SNOW- DEPTH	NONE	TRACE	1	2	3	4-4	7-12	13.24	25 36	37-48	49-60	61 120	OVER 120	AMTS				
JAN	27.6	28.1	6.8	12.6	7.6	12.1	3.9	1.2						44.3	644	1.60	3.86	RACE
PEB	33.7	23.4	7.3	12.5	7.8	10.1	4.3	. 5	.2					42.9	564	1.35	3.80	.10
MAR	47.4	18.5	4.2	9.2	6.8	7.6	5.2	1.1						34.0	620	1.47	3.91	.07
APR	38.1	19.2	4.5	11.2	8.2	11.7	5.3	1.8						42.7	599	1.82	4.10	.27
MAY	41.8	18.2	4.7	10.0	5.3	10.5	6.5	2.6	.5					40.0	620	2.27	4.04	.57
NUL	42.4	15.7	3.5	9.7	7.0	9.5	7.5	3.7	1.0					41.9	599	2.77	5.33	.25
Mr	43.7	16.1	3.7	7.6	7.1	11.5	5.9	2.4	1.0					40.2	620	2.49	5.10	.08
AUG	44.1	16.3	4.0	7.2	5.4	10.2	6.3	3.2	1.1	.2				39.6	649	2.95	5.81	.10
SEP	51.6	12.1	3.9	6.7	7.1	9.4	6.4	2.3	.5					36.3	659	2.00	5.37	.11.
ост	51.8	14.4	3,8	8.7	4.6	10.1	3.7	2.3	.6					33.6	681	1.88	5.32	.19
NOV	34.6	18.9	6.5	10.4	9.7	12.0	5.3	2.3	.3					46.6	657	2.11	5.20	.31
DEC	28.7	25. 1	.6.5	12.4	7.5	1 9.9	6.6	2.4	.6					46.2	677	2.14	4.87	. 25
ANNUAL	40.5	18.8	5.0	9,9	7.0	10.4	5.8	2.1	5	٠.				40.7	7589:	24.85	X	

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DATA PRUCESSING BRANCH, USAF/ETAC/OL A AIR WEATHER SERVICE/MAC

EXTREME VALUES

PRECIPITATION

FROM DAILY OBSERVATIONS

35032

REIN-MAIN APT GERMANY/FRANKFURT

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24 HOUR AMOUNTS IN INCHES

YEAR	JAN	FEB	MAR	APR.	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	ALL MONTHS
46								*	.48	.67	.33*	.68	
47	*TRACE		i_				*		.72	.22	.66	1.09	
48	.49		.41	.47	. 63	.33	.35	.84	.17	1.34*	.25	.38	1.34
49	.14	.31	.42	.08	1.15	•40	•07	1.19	•42.	.75	.16	1.06	1.19
50	.15	.40	.03	.93	1.81	.80	1.23	.57	.75	.30	.93	.58	1.81
51	.46	.31	.47	.30	.73	.71	.28	.55	.64	.41	.78	30	.78 1.19
52	.74	•40	.66	.48	.17	1.03	1.19	.67	.78	.73	.81	. 10	1.19
53	.19	.29	.06	.58	.30	~96	•7∔	.54	.32	1.61	.19	.29	1.61
54	.32	.28	.30	.17	.30	.72	.43	.53	.48	.35	.39	1.09	1.09
55	.62	.37	.25	.13	.77	1.41	.99	.69	.30	.54	.28	1.06	1.41
56	.39	.13	.25	.97	.46	.96	686	.72	.47	•72	.32	.30	.97
57	.19	.72	.76	.47	1.57	.37	• 45	.70	1.17	•90'	.20	.27	1.57
58	.63	.39	.39	.30	.58	.81	-58	1.98	.61	-48	.44	.41	1.98
59	.37	.04	.47	.30	.28	2.14	.56	.30	.11	.80	.26	.48	2.14
60	.23	.33	.33	.26	.67	.22	1.02	1,36	.24	•70	.41	.60	1.36
61	.30	.40	.19	.60	.41	.85	1.17	.70	.50	.52	.62	.27	1.17
62	.43	1.29	.76	•68	.64	.11	•30	•50	.64	.21	.23	.57	1.29
63	•20	.20	.89	.27	.54		2.02	1.18	•70	1.09	.39	.09	2.02
64	.11	.31	.35		.70	.44	•20	.37	.44	.95	1.74	.12	1.74
65	.63	.09	.67	.39	•40	1.63	.89	.87	1.39	.09	.72	.83	1.63
66	.35	.30	.48	.69	.35	1.17	•59	3.12	.31*	1.06	.52	.89	3.12
67	.22	.51	.50	.74	.71	.35	.59	1.72	1.08	.84	.36	.48	1.72
					,								\$
MEAN	.341 .199	.374	•432	.485	.669	.508	.726	.914	.578	.695	.500 .355	.379 .321	1.35
S. D.	644	564	620	599	620	399	620	649	639	681	657	677	7589
TOTAL OBS.	3 099	NOTE		EDON	940	MONT	020	047	037	901	02/	0//	7201

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MONTHLY PRECIPITATION

FROM DAILY OBSERVATIONS)

35032 REIN-MAIN APT GERMANY/FRANKFURT 46-67

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TOTAL MONTHLY PRECIPITATION IN INCHES

MONTH	JAN.	FEB	MAR,	APR	MAY	NUL	JUL !	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
46					;	1			2.51	1.25	1.19*	1.04	
47	*TRACE							* .1C	.92	.37	2.24	3.04	
48	2.73*		.53	1.12	2.28	1.69	2.40	2.65	.42	1.95*		.60	*17.7
49	.50	.41	1.22	.27	3.51	.74	.08	3.01	1.43	1.31	.76	1.78	15.0
50	.33	1.41	.07	3.17	4.01	3.44	2.91	2.93	3.03	.86	3.74	2.49	28.3
51	2,53	1.09	2.15	1.10	2.34	3.83	1.43	2.37	1.81	.68,	2.00	.83	22.1
52	2.88	1.26	2.60	1.48	.74	2.98	1.68	2.36	4.37	2.76	5.20	3,17	31.4
53	.53	.87	-19	2.07	1.15	3.39	2.48	1.04	.89	2.02	.31	1.05	15.9
54	1.37	.69	1.28	1.26	1.09	2.58	3.18	3.57	3.32	2.09	1.48	3.68	25.5
55	1.81	1.75	.92	.36	3.05	3,41	2.78	2.43	1.37	1.14	.76	3.55	23.3
56	2.37	.37	.64	3.11	1.75	4.57	3.30	4,27	1.96	2.62	1.33	1.10	27.3
57	1.63	3.80	2.40	1.18	2.78	1.67	2.70	2.51	5.37	1.53	.67	1.36	27.6
58	2.57	2.43	1.33	.78	4.04	3.40	2.25	5.68	1.66	1.91	1.26	2.59	29.9
59	1.53	.10	1.57	2.17	.37	3.75	2.10	.67	.11	1.60	.92	2.00	17.0
60	1.84	1.72	1.01	1.28	2.82	.81	3.70	5,31	.96	5.32	2.94	2.64	30.3
6 <u>1</u>	1.81	1.58	.47	2.47	3.13	3.63	5.10	2.03	1.55	2.56	3.33	1.84	29.5
	1.94	2.51	2.23	2.10	2.68	.23	1.21	2,21	1.38	•66	1.40	2.80	21.3
64	.67	1.26	3.91	.90	1.09			5.81	2.08	2.00	2.68	.25	*25.7 *18.2
65	3.86	.46		3.67		1.04	.42	1.01	1.34	2.17	4.97		37.2
66	1.29	1.87	2.25	4.10	2.42	5.33	3.39	5.44	3.54	3.26	2.85	4.87	*34.3
67	.83	1.85	1.47	1.85	2.80	4.43		4.44	3.14	3.11	1.85	1.88	26.8
		2,00	****	7.00	2.00		2.00		9.17	3011	1.00	1.00	2000
MEAN	1.598	1.355	1.469	1.822	2.267	2,767	2.490	2.954	2.003				25.20
\$. D.	.999	.886	.938			1.416				1.150		1.246	6.26
OTAL OBS.	644	NOTE	620	599 SED ON				649	659	681	657	677	758

USAF ETAC NOME DOS (OLA)

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF SNOWFALL (FROM DAILY OBSERVATIONS)

35032

REIN-MAIN APT GERMANY/FRANKFURT

46-67

STATION

STATION NAM

YEARS

		AMOUNTS (INCHES)												PERCENT	****	MONT	MONTHLY AMOUNTS		
PRECIP	HONE	TRACE	.01	.02- 65	0610	.11- 25	.2650	.51 1 00	1 01-2 50	2 51-5 00	3 01-10 00	10 01-20 00	OVER 20 00	OF DAYS		(INCHE:		S} 	
SNOWFALL	HONE	TRACE	0.1-0 4	0 5-1,4	1.5-2 4	2534	3 5.4 4	4 5.6 4	6 5.10 4	10 5-15 4	15 5-25 4	25 5-50 4	OVER 50 4	MEASUR-	OF OBS.	MEAN	GPEATEST	LEAST	
SNOW- DEPTH	NONE	TRACE	1	2	3	4-6	7.12	13 24	25.36	37-48	49-60	41.120	OVER :20	AMTS					
JAN	67.2	20.6	4.9	4,8	1.5	.5	.2	.2	.2					12.2	647	4.2	30.7	TRAC	
FEB	72.2	17.9	3.2	4.1	1.0	•4	.4		.2					9.9	564	3.5	16.7	•1	
MAR	87.1	9.5	1.8	.6	.5	.3	.2							3.4	620	1.1	4.2	.(
APR	96.5	3.2	.2		.2									.3	630	.1	2.0	.0	
MAY	99.5	.5													651	RACE	RACE	•	
HUL	100.0														629	.0	.0	•	
JUL	100.0														651	.0	.0		
AUG	100.0														651	.0	.0	•	
SEF	100.0														660	.0	.0		
ост	99.7	. 3													682	RACE	RACE		
ноу	92.6	·5.5	•8	,8	.3		•2				l	 		2.0	658	.6	6.7	•	
DEC	76.2	17.4	1.0	3.0	1.2	. 1	•1		-1					6.4	677	2.5	19.1		
ANNUAL	90.9	6.2	1.1	1.1			· 41	.0	.0	à.,				2.8	7720	12.0		X	

1210 WS (FORM) 0.15-5 (OLT) PREVIOUS SOITIONS OF THIS FORM ARE DESOLATE

EXTREME VALUES

SNOWFALL

(FROM DAILY OBSERVATIONS)

REIN-MAIN APT GERMANY/FRANKFURT 46-67

24 HOUR AMOUNTS IN INCHES

YEAR MONTH	JAN.	FEB	MAR	APR	MAY	NUL	JUL	AUG.	SEP	ОСТ	NOV	DEC	ALL MONTHS
46						1		-	•0	• 10.	.5	*TRACE	
47	*TRACE			•0	• 0	•0	.0	•0	. Ŏ				
48	3.3				• 0	• (.0	•0	•0	•0		TRACE	3.
49	6	TRACE	2.5	TRACE	.0	•0	.0	•0	.0	• C	TRACE	2.8	2.1
50	1.1	1.1	TRACE		• 0	• 0	.0	• 0	•0	TRACE	TRACE	9.6	9.0
51	. 8	. 4		TRACE	• 0	•0	.0	•0	.0		.0	TRACE	
52	8.7	3.1	3.5	2.0	• 0	• 0	.0	• 0	.0				8.
53	1.6	3.9		.0	•0	-0	•0	•0	•0	•0	TRACE	.4	3.9
54	2.4	1.2		TRACE	• 0	• 0	• 0	•0	•0			TRACE	2.4
55	2.0	3.5	2.0	.0	•0	- 0	0	•0	0		TRACE		3.5 2.6
56	2.8	2.4	TRACE		.0	•0	• 0	•0	•0	•0			
57	8	1	0		TRACE		0	•0	0	•0		. 8	
58	2.4	2.0	2.0	.4	•0	•0	•0	•0	•0			TRACE	2.4
59	2.0	TRACE	.0	.0	-0	•0	0	•0	.0	•0			2.0
60	1.6	TRACE			• 0	• 0	.0	• 0	•0	•0		1.6	1.6
61	2,8	TRACE			•0	-0	0	•0	.0	•0		TRACE	2.8
63	TRACE	1.2			• 0	•0	.0	•0	•0	•0	3.5	1.2	
54	4.3 5.9	2.4 7.9	TRACE	TRACE	.0		.0	-0		.0	•0	.6	4.3
65	4		2.8		• 0	•0	•0	•0	•0	•0	•0	3.9	7.9
66	- 4	.8		•0	•0	•0	.0	•0	•0	•0		.4	2.6
67	. 8	•0	•0		.0		•0	•0		•0	•4		
						•0	•0	•0	•0	•0	• •0	1.6	* 1.6
MEAN	.2.13	1.59	• 74			•00	•00	.00	-00	TRACE	.38	1.30	3.4
S. D.	2.108	1.954	1.172	-441	•000	.000	•000	.000	•000	₹ .00C		2.112	2.51
TOTAL OSS.	041	NOTE NOTE			651	629	651	651	660	2 682	658	677	7720

MONTHLY SNOWFALL

(FROM DAILY OBSERVATIONS)

35032 REIN-MAIN APT GERMANY/FRANKFURT 46-67

C

TOTAL MONTHLY SNOWFALL IN INCHES

MONTH YEAR	MAL	FEB	MAR,	APR.	MAY	אטנ	JUL	AUG	SEP	oct	нол	DFC	ALL MONTHS
46			-		1	1			•0	• 0	• 5	*TRACE	
47	*TRACE			.0	,0	• 0	.0	• C	•0	.0	1.3	6.0	
48	4.0		•0	• 0	• O'	• O.	• 0	• 0	•0	• 01		TRACE "	* 6.0
49	.9	TRACE	2.6	TRACE	• 0	•0:	.01	• 0	• 0		TRACE	2.8	6.3
50	1.1	1.4	TRACE	• 0	• O,	• 0	.0	•0	• 0	TRACE	TRACE	19.1	21.6
51	2.1	. 4	.7		• 0	• O	.0	• 0	•0	• 01	•0	TRACE	3.2 27.1
52	10.7	6.7	3.5	2.0	• 0	•	.0	• 0	•0	• 01	2.2	2.0	27.1
53	4.4	7.1	TRACE	.c	•0;	• (r)	.0	•0	•0	• 0!	TRACE	.4	11.9
54	8.4	2.4	•0		• 0	• 0	.0	• 0	• 0		TRACE		10.8
55	3.2	16.7	4.0	•0	•0	•0	.0	•0	٠,٥	• 0	TRACE	.7	24.6
56	8.4	6.0	TRACE	TRACE	• 0	• 0	.0	• 0	•0		TRACE		10.6
57	1.2	. 1	• 0	TRACE	TRACE	•0	.0	•0	•0	•0	TRACE	1.6	2.5
58	4.4	3.2	4.2	• 4	• 0	• 0	.0	•0	•0	• ^	• 0		12.2
59	6.0	TRACE	0	• 0:	0	0	.0	•0	•0	•0	• 0,	.0	6.0
60	5.2	TRACE	TRACE	TRACE	•0	• 0	.0	• 0	•0	• 0		4.4	9.6
61	6.4	TRACE	TRACE	.0	•0	• 0	.0	<u>•0</u>	•0	•0	TRACE	TRACE	13.1
62	TRACE	1.2	2.4	TRACE	• 0	• 0	.0	• (7)	• 0	•0	6.7	2.8	13.1
63	10.3	10.0	•0	.0	•0		.0	•0	• 0	•0	•0	.8	* 21.1
64	7.9	7.9	TRACE	TRACE	• 0	• 0	.0	• 0	• 0	•0	•0	8.7	* 24.
65	1.6	4.4	3.6	.0	•0	•0	.0	•0	• 0	• 0	1.6	.4	11.6
66	• 4	•0	• 0	•0	•0	• 0	.0	•0	• 0	•0	• 4	.8	* 1.6
67	1.6	0	•0	•0	•0		0	•0	•0'	•0	+0	1.6	3,7
MEAN S.D.	4.20	·3.51	1.05	- 11 -441	TRACE	.00	•00	.00	.00		.58	2.47	12.0
TOTAL OBS.	647	564	620	630	651	629	651	651	660	682	1.497	4.329 677	8 • 022 772
IUIAL OBS.	04 /	NOTE			< FUL			621	000	002	025	0//	1120

USAF ETAC FORM GROS (OTA)

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF

35032

REIN-MAIN APT GERMANY/FRANKFURT

46-67

STATION

STATION NAM

YEAR

		AMOUNTS (INCHES)												PERCENT		MONTHLY AMOUNTS		
PRECIP.	NONE	TRACE	01	.02-05	.06-10	,1125	.2650	51 1 00	1 01-2 50	2.51-5 00	5 01-10 00	10 01-20 00	OVER 20 00	00 0440	NO		(INCHES)	
SNOWFALL	NONE	TRACE	01-04	0 5-1 4	1.5-2 4	2.5 3 4	3 5.4 4	4 5-6 4	6.5-10 4	10 5 15 4	15 5-25 4	25 5-50 4	OVER 50.4	MEASUR- ABLE	OF OBS	MEAN	GREATEST	LEAST
SNOW. DEPTH	NONE	TRACE	1	2	3	4.6	7.12	13-24	25-36	37.48	49.60	61-120	OV!R 120	AMTS				
MAL	69.3	11.1	9.0	5.1	1.2	3.7	.5							19.5	646			
FEB	76.1	5.0	4.8	5.3	3.0	5.7	.2							18.9	565			
MAR	93.7	3.4	1.1	1.1	.3	.3								2.9	620			
APR	99.5	.5													630			
MAY	100.0														651			
NUL	100.0														629			
JAr	100.0														651			
AUG	100.0														651			
SEP	100.0			•											660			
ост	100.0														682			
NOV	96.2	1.6	1.2	•2	.2	.5								2.0	658			
DEC	82.9	7.1	5.4	3.1	.4	.3	.7	7 						10.0	679			
ANNUAL	99.1	2.4	1:0	1:2	34		. , , 1	1	we i i i i	冬点			 	4.9	7722		X	\times

1210 WS UL 44:0-15-5 (OLI) PREVIOUS EDITIONS OF THIS FORM ARE OSSOLETE

EXTREME VALUES

SNOW DEPTH

IFROM DAILY OBSERVATIONS

35032 REIN-MAIN APT GERMANY/FRANKFURT 46-67

DAILY SNOW DEPTH IN INCHES

MONTH	JAN	FEB	MAR.	APR	MAY	אטנ	JUL	AUG	SEP	ост	NOV	DEC	ALL MONTHS
46									0	0.	0	TRACE	
	*TRACE			<u>o</u>	0	0	0	0	0		TRACE	2	
48	Z	Z	0	J,	0	0	0	0	01	()		TRACE	2
49	TRACE	IRACE	TRACE	TRACE	0	0	0	0	0:	<u> </u>			
50 51	4	O L	TRACE	. 0	0	0	0	0: 0:	() ()	0	_	TRACE	7
52	g	<u>ə</u>	4	0	ŏ	0	0		0	0:			
53	Ź	4	0	Ŏ	Ö	0	õ	ŏ	0	ŏ		TRACE	i i
54	7	2	0	0	0,	0	0	Ō	0	0		0	7
55	3	6	1	0	0	0	0	0	0	0 i	0	1,	6
56	4	4	Q	O,	0	0	0	0	0	0	0		4
57	2	TRACE			0	0	0	0	<u> </u>	0		TRACE	2
58	2	2	2	TRACE	0	0	0	O	0	0	0	,	2
59	3	0	0	0	0	0	0	0	0	0			3
60		0		O	0	0	0	0	0	0	0		4
61	TRACE		0	0	0	0	0	0	0		0	TRACE	
62 63	IKALE	14	2	0	0	* 0	0	0	0	0	o	4 j	7
64			7	ŏ		0	0		0	<u>ŏ</u>			
65	TRACE	i	4	o.	o	ŏ	o	o	o	Ö	- 1	TRACE	4
66	TRACE	0	0	0	Ō	0	Ō	0	O	O	TRACE	1	i
67	* 1	0	0	0	0	0	0	0	0	0			* 4
MEAN	2.8	1.7	. 5	TRACE	سر •0	•0	.0	•0	•0	•0	. 3	1.3	4.4
S. D.	2.695	2.084		•000	-000	.000			•000	.000	.883	1.937	2.303
TOTAL OSS.	646	565	620	630	651	629		651	660	682	658	679	7722

USAF ETAC HOME 0465 (OLA)

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

PART C

SURFACE WINDS

Presented in this part are various tabulations of surface winds as follows:

1. Extreme Values - Peak Gusts: Derived from daily observations and presented by individual year and month for the entire period of record available. Speeds are presented in knots, while directions are given in 16 compass points from the beginning of record through June 1968, and in tens of degrees starting in July 1968. The extreme is selected and printed from available peak gusts for each year-month, however an asterisk (*) is printed in the data block if less than 90% (3 or more missing observations) of the peak gusts are available for the month. An ALL MONTHS value is presented when every month of the year has valid observations. Means and standard deviations are also computed when four or more values are present for any column. A total raw count of valid observations is presented for each month and ALL MONTHS.

NOTE: According to Federal Meteorological Handbook No. 1 specifications (formerly Circular N), "peak gust data are recorded only at stations with continuous instantaneous wind-speed recorders." DATA NOT AVAILABLE

2. Bivariate percentage frequency tabulations: Derived from hourly observations, these tabulations are a percentage frequency of wind directions to 16 compass points and calm by wind speeds (knots) in increments of Beaufort classifications. Percentages are shown by both directions and speed, and in addition the mean wind speed is given for each direction.

A separate category is provided on the form for variable winds, which are reported in some data sources. In these data where light and variable winds are reported with no directions but with speeds given, the speeds will be summarized in the appropriate groups opposite the column headed VRBL.

- a. Three tables are prepared for ALL WEATHER surface winds, all years combined, by: (1) Annual all hours combined, (2) By month all hours combined, and (3) By month by standard 3-hour groups.
- b. A separate annual table is also presented for surface winds meeting INSTRUMENT CLASS conditions as follows: Ceiling 200 through 1400 feet inclusive with visibility equal to or greater than 1/2 mile, and/or visibility 1/2 through 2-1/2 miles inclusive with ceiling equal to or greater than 200 feet.

NOTE: A percentage frequency of ".0" in these tables represents one or more occurrences amounting to less than ".05" percent.

SURFACE WINDS

TOTAL HUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

					ALL WE	ATHER				· · · · · ·			(L.S.T.)
	-				соя	DITION							
SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 . 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.0	1.1	7	•2	.0					i		3.0	5.2
NNE	2.0	2.9	2.9	1.5	1	•0						9.4	6.8
NE	3.9	4.8	2.5	.8	•1	.0					الأد	12.1	5.3
ENE	3.3	2.7	1.0	1	.0							7.2	4.2
E	2.7	1.9	.7	•1							t	5.4	3.9
ESE	1.2	.7	.3	•0								2.2	3.7
SE	.7	.3	•1	•0								1.1	
SSE	.9	.3	1	•0								1.3	3.0
\$	2.6	2.8	2.1	•6	.0	•0				1		8.2	5.4
SSW	1.9	3.6	4.6	2.6	.3	•0						13.0	7.6
SW	1.3	2.4	3.4	3.0	.6	. 1	•0	•0			-	10.9	9.0
WSW	1.0	1.5	1.8	1.7	.5	i	.0					6.7	8.9
w	. 5	1.1	1.5	1.2	.3	. 1	.0					4.6	8.9
_WWW	_ 2	. 8	1.1	•5	.1	.0	.0					2.7	8.0
NW	_ 2	7	1.1	5	9	Ω						2.6	7.8
NHW	- 4	- 6	.6	•2	.0	-0					-	1.9	
VARBL	2.2	5	•0									2.7	2.4

USAFETAC FORM 0-8-5 (AL A) PREVIOUS EDITIONS OF THIS FORM ARE DESOURTE

DATA PROCESSING BRANCH 200 SURFACE WINDS ETAC/USAF AIR WEATHER SERVICE/MAC PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS) 0 RHEIN-MAIN APT GERMANY/FRANKFURT JAN Ũ C C SPEED MEAN WIND SPEED 7 - 10 11 - 16 C 1.5 3.5 5.4 5.1 NNE .8 •6 C 4.7 4.2 1.0 • 3 10.2 4.3 3.9 .8 9.0 3.9 4.2 8.4 3.8 •8 3.9 3.8 E 2.6 ESE 3.4 SE .9 •0 2.7 1.1 SSE 1.3 2.2 1.1 3.7 3.8 5.4 3.2 11.5 8.1 6.0 3.8 16.8 2.5 3.2 1.0 11.9 9.6 SW O 2.0 6.3 9.0 1.1 1.1 1.6 •0 WSW •5 1.0 3.3 16.0 • 8 w •6 WNW .2 • 5 1.7 8.3 0 .3 •5 1.5 8,5 .2 6.1 . 1

0

0,

Ð

1.2

6.0

100.0

TOTAL NUMBER OF OBSERVATIONS

1.8

5.9

7171

O

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

SIAIRE			BIA1,0	I ILLUIT						76449				PURTIN
		_				VIT ME	ATHER							(LF.T.)
		_				- COR	DITION							
						-								
•														
	SPEED	ı — — —						<u> </u>		 _				MEAN
	(KNTS) DiR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	WIND SPEED
	N	1.1	1.1	.7	•2								3.2	5.0
	NNE	2.6	3.8	3.8	2.2	.1							12.5	6.9
	NE	3.8	6.1	3.2	•7								13.8	5.3
	ENE	3.2	3.2	1.0	•1			ì			I		7.5	4.2
	E	2.8	2.1	.6	٠								5.6	3.8
	ESE	1.5	c7	•2	•0								2.4	3.3
	SE	. 8	.3	• 1									1.1	2.7
	SSE	8	.2	• 1	•								1.1	3.1
•	5	2.8	2.4	2.0	•6	0		L	L		L	L	7.8	5.4
	\$\$W	2.0	3.0	4.2	3.4	.4	.0			<u> </u>			13.1	8.2
	sw	1.5	2.0	2.5	3.6	.6	.3	.0					10.4	9.5
	WSW	1.2	-1.5	1.4	1.2	.4	•1	•0					5.8	8.3
	w	. 4	.9	4.0	<u></u>	. 4		.0	l	l			3.9	9.9
	.WMW	.4	. 8	. 9	4	.1	.0	<u> </u>				I	2.5	7.7
	NW	3	.6	. 3	• 2		<u> </u>				L		1.8	7.1
	NHW	3	.5	.4		L				i			1.3	5.8
											,			

TOTAL NUMBER OF OBSERVATIONS 6492

USAFETAC FORM 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

0

C

C

0

0

RHEIN-HOIN APT GERHANY/FRANKFURT

SURFACE WINDS

HAR

7.1

7353

TOTAL NUMBER OF OSSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

					ALL WE	ATHER			<u></u>				LL LLET.
					CON	PITION				_			
SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	71 - 16	17 - 21	22 - 27	28 · 33	34 - 40	41 - 47	48 - 55	≥56	*	ME WI SPE
N	,9	1.3	.7	•1								3.1	-
NNE	1.9	3.2	4.5	3.4	.3	•0				1		.3.3	
NE	3.3	5.8	4.0	1.9	.2							15.1	
ENE	2.4	1.8	1.5	• 3								6.0	
é	1.9	1.6	1.1	•0								4.6	
ESE	.7	5	.4									1.6	
SE	•6	.2	•2	•0					i			1.1	
SSE	.7	.3	•1	•0								1.1	
\$	2.3	2.4	1.7	•6	•0							6.9	
SSW	1.7	3.2	3.5	2.6	.3							11.3	
SW	1.1	2.1	3.0	3.6	.9	•2	•					10.9	
wsw	.8	1.2	1.8	2.1	•9	•2	•0					7.0	7
W	.5	,9	1.2	1.6	, 5		•0					4.7	
WNW	•2	. 8	1.2	. 8	.1		•0				<u> </u>	3.1	
NW	•1	.7	1.2	•9	•0	•0					<u> </u>	3.1	
NAW		-6	-6	. 5	-0	i			1	1	1	1.9	1

USAFETAC TOMA 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM AND OBSOLETE

DATA PRUCESSING BRANCH SURFACE WINDS ETAC/USAF AIR WEATHER SERVICE/MAC PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS) C RHEIN-MAIN APT GERMANY/FRANKFURT 0 0 SPEED (KNTS) DIR, MEAN WIND SPEED 7 - 10 17 - 21 0 N 4.6 5.8 أعا 8.2 4.8 NE 3.7 14.1 6.6 ENE 4.8 2.4 1.8 2.0 1.3 . 8 4.2 0 ESE 4.2 1.9 •6 4.0 1.0 SSE Œ 5 1.5 1.6 8.8 8.0 SSW 1.1 2.0 3.4 2.2 9,3 10.2 \$W 1.4 3.0 WSW 10.5 w 1.8 8.9 WNW 4.5 8.2 1.7 0 4.4 8.7 1.0 2.0 7,6 NNW 1.0 3.6 0 TOTAL NUMBER OF OBSERVATIONS 6765

USAFETAC FORM 0-8-5 (QL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

0

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

35032 STATION	RHEI	N-MAIN	APT GE	RMANY/	FRANKE	URT	67-	76	 ,	TEA 25				Ү Д
						ALL WY	ATHER							(L & T-)
		-				CON	DITION				<u> </u>			
	SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
<u> </u>	N	1.1	1.4	1.0	•2								3.7	5.5
Ī	NNE	1.8	2.8	3.2	1.1	.1	•0						9.0	6.7
	NE	3.8	4.7	2.6	•9	.1							12.0	5.5

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1.1	1.4	1.0	•2								3.7	5.5
NNE	1.8	2.8	3,2	1.1	. 1	• 0						9.0	6.7
NE	3.8	4.7	2.6	• 9						l		12.0	5.5
ENE	2.6	2.5	1.1	•2								6.4	4.7
ŧ	2.4	1.8	1.2	• 2			İ			<u> </u>		5.6	4.6
ESE	1.0	.9	.5	•2								2.6	4.9
\$E	.5	.3	. 2							<u> </u>		1.1	4 - 1
SSE	1.1	.4	, 1									1.6	3.1
દ	2.3	2.7	1.7	• 3	.0			L				7.0	5.1
SSW	1.6	3.5	3.6	1.2	•1		Ĺ	<u> </u>				9.9	6.7
sw	1.1	2.1	3.5	2.2	.4	•	•0					9.3	8.5
WSW	1.0	2.0	2.2	1.5	.6	• 1						7.3	8.6
w	.5	2.0	2.1	1.6	.2	• 0		<u></u>				6.5	8.5
WXW	•2	1.1	1.7	- 8	.0							3.8	8.1
NW	1 .21	.9	1.5	•6	.0							3.3	8.0
MMM	.3	.9	.9	•4								2.5	7.3
VARSL	3.2	1.1										4.3	2.6
CALM	$\geq \leq$	$\geq \leq$	\times	$\geq \leq$	X	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	4.2	
	24.7	30.9	27.2	11.3		2						100.0	6.1

TOTAL NUMBER OF OBSERVATIONS 6972

USAFETAC FORM 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLET

C

C

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

					сон	BITION							
SPEED (KNTS) DIR.	1-3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	
N	1.2	2.0	1.6	.4	•0							5.3	Γ
NNE	1.8	3.8		2.7	. 1							12.2	Γ
NE	3.3	4.5	3.3	.9	. 0							11.9	
ENE	2.6		1.4	• 3								6.7	
E	2.4	1.3	.7	1								4.4	Γ
ESE	9	• 7	.1	•0								1.8	Г
SE	. 5		• 1									1.0	
SSE	8	.4	.1									1.3	Œ
S	2.2	2.1	1.2	.2								5.7	Ĺ
ssw	1.6	2.9	3.1	1.0	.0							8.7	
sw	1.3		3.5	1.5	. 2						6	8.6	
WSW	. 9	2.0	1.9	1.7	. 5	.0						7.1	Ĺ
w	.5	2.0	2.4	1.4	. 3	0						6.6	L
WNW	1	1.1	1.4	.5	.0							3.1	L
NW_	.3	1.0	1.6	8								3.7	L
NNW	5	1.2	1.0	3								3.0	L
VARBL	3.0	1.1		L	Ļ,	<u></u> ,	Ļ	Ļ.,	Ļ,			4.1	L
CALM	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	><	4.9	L

TOTAL NUMBER OF OBSERVATIONS 6763

USAFEYAC FORM G-8-5 (OL A) PREVIOUS (DITIONS OF THIS FORM ARE OBSOLET

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

					ALL WE	ATHER							LL (LST)
	-				CON	SITION							
SPEED (KNTS) DIP.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	×	MEAN WIND SPEED
H	.9	1.5	.9	•1				 	 			3.3	5.1
NNE	1.7	2.8	2.5	• 5								7.5	6.0
NS	3.4	4.2	2.0	.5								10.1	5.0
ENE	3.0	2.5	.7	•1					T	1.		6.3	4.0
E	2.1	1.4	•6					 	† — — —	1		4.1	3.9
ESE	1.0	•6	.3						 			1.8	3.9
SE	.5	.5	•1					 	 			1.1	3.9
SSE	.9	.4	•1						 			1.4	3.3
\$	2.8	2.5	1.2	•2					1			6.7	4.6
SSW	2.1	3.3	3.3	1.2	•0	0			1			10.0	6.5
SW	1.3	2.4	3.5	2.1	.3				1			9.7	8.1
WsW	1.0	2.1	2.3	1.8	.5	•0			1			7.7	8.4
w	.9	2.1	2.4	1.4	.3		• C		1			7.2	8.2
WNW	.4	1.4	2.2	•6	•1	· · · · ·			1	1		4.6	7.6
NW	•4	1.4	2.1	•7				 	 			4.6	7.5
NNW	. 8	1.3	1.4	.4				1	1	1		3.9	6.4
VARBL	3.1	1.6							 			4.8	

TOTAL NUMBER OF OSSERVATIONS

100.0

5.7

USAFETAC FORM 0-8-5 (QL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

0

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

					ALL WE	THER							(L.S.T.)
	_	 	 		CON	DITION	· · · · · ·	 , ,,	·				
SPEED								Γ		 			MEAN
(KNTS) DIR.	1.3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	WIND
N	.9	1.3	7	• 1	•0				1			3.1	5.
NNE	2.5	3.5	3.4	• 7								10.1	5.9
ΝE	4.7	6.5	3.1	3								14.6	4.9
ENE	3.6	3.0	1.3	• 1								8.0	4.3
E	2.9	2.1	1.2	• 2								6.3	4.4
ESE	1.3	.9	.5	•1								2.8	4.2
SE	.6	, 5	.3	•0					I			1.4	4.5
SSE	1.1	. 4	• 2									1.7	3.4
5	2.2	2.4	1.5	•2	.0				l			6.4	5.0
ssw	1.7	3.4	3.6	1.1	• 0							9.8	6.6
SW	1.2	2.4	3.7	1.9	1							9.4	7.7
WSW	1.0	1.3	1.9	1.7	.3							6.1	8.5
w	. 5	. 9	1.3	1.1	.2	0						4.0	8.5
WNW	.2	. 8	1.1	• 3								2.4	7,4
NW	. 4	1.0	1.2	• 3	.0							2.9	6.8
NNW	,4	.6	.6	• 1								1.7	5.9
VARBL	3.5	1.1										4.6	2.
CALM	><	\times	\mathbb{X}	\mathbb{X}	\mathbb{X}	\times	><		$\geq <$	><	\searrow	4.7	
	28.8	32.1	25.6	8.1	.7							100.0	
		_							TOTAL NU	MBER OF OBS	ERVATIONS	-	6494

JSAFETAC FORM 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

SURFACE WINDS

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

	-				ALL WE	ATHER						A DOUBLE	LL LUBT.
					COM	DITION							
SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	ME WII SPE
N	1.1	.9	.4	•1								2.5	4
HNE	2.3	3.3	2.5	.4	•0					† · · · · · · · ·		8.6	
NE	5.1	5.0	2.5	•3						1	مختو	12.8	
ENE	4.5	2.9	.8	•1						i		8.2	
E	3.2	1.5	.4							1		5.1	
ESE	1.4	.5	3							1		2.1	
SE	.9	.3	•1									1.4	
SSE	1.1	.5	•1	•0						1		1.7	
5	2.8	3.7	3.2	1.2	.0				i			10.9	,
ssw	2.1	4.2	4.9	2.5	.1					T	!	13.9	
SW	1.0	2.9	3.2	2.4	.4	•0						9.9	
wsw	1.3	1.2	1.6	1.4	,4							5.9	
w	• 4	•7	.8	•8	.1							2.7	
WNW	.1	.5	.4	.3	.0							1.4	
NW	.3	5	.6	•1	•0							1.5	
NNW	. 4	•6	.3	•1								1.4	
YARBL	2.9	.5										3.3	
CALM	><	\times	> <	$\supset \subset$	$\supset \subset$	> <	$\supset \subset$	$\supset \subset$	$\supset \subset$	$\supset \subset$	><	6.8	
		$\overline{}$								+	┍═		-

IISASSTAC FORM (I.E.S. (Ft. A) services entrous on this tons are controlled

SURFACE WINDS

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

RHEIN-MAIN API GERMANY/FRANKFURT 67-76

					CON	BITION							
SPEED · (KNTS) DIR,	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	•6	.4	.8	•1	•0							1.9	5.
NNE	1.6	1.7	1.5	• 7	1							5.7	6.
NE	6.0	4.7	2.1	6								11.5	4.
ENE	4.1	3.4	. 8	. 1								8.4	3,
£	3.2	2.4	.7									6.3	3.
ESE	1.2	.5	. 3	•0								1.9	3.
SE	8	• 2	•1	•0								1.1	2.
SSE	. 9	.3	.1	.0								1.3	3.
S	3,3	3.2	2.1	5								9.1	5.
SSW	2.7	4.4	5.5	2.4	.2							15.3	7.
SW	2.3	3.3	3.9	3.2	.6	0	.0	•0				13.3	8.
WSW	1.5	1.6	1.8	1.6	. 5	-						7.0	8.
₩	. 6	1.0	1.1	1.2	3	0						4.1	9.
WWW	. 2	46	9	- 4	1							2.3	8.
NW	. 2	5	.5	.1		0						1.4	7.
MMM	. 3	. 3	. 3	.1		.0						.9	6.
VARSL	1.9											2.1	1.
CALM	X	\times	><	\times	><	\times	><	><	> <		> <	6.5	
	29.4	28.7	22.3	11.2	1.7	. 2	•0	•0				100.0	ع 5

USAFETAC FORM 0-8-5 (QL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

NNW

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

 -	KNELI	N-MAIN	STATION	NAME A	FRANKE	UKI	67-	.10	 ,	TEARS				IDV IONTH
						ALL WE	ATHER							LL
						¢ı	A96						NOV R	(L 1 T.)
		_	 			com	DITION							
		_												
()	PEED KNTS) DIR.	1.3	4-6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
_	N	1.3	.7	• 4	•3						<u> </u>		2.7	4.8
	NNE	2.0	2.1	2.1	1.0	.2							7.4	6.5
	NE	3.4	3.1	1.1	•4								8.1	4.6
	ENE	3.2	1.8	•6	•0					<u> </u>			5.6	3.6
	E	2.9	1.4	.5	•0								4.9	3.5
	ESE	1.5	.7	•0									2.2	2.9
	SE	.7	.2	•0									1.0	2.6
	SSE	• 9	.3	.0									1.3	2.7
	5	2.9	3.5	3.3	1.4	.2							11.4	6.4
	ssw_	2.0	4.3	6.5	5.2	.7	•0						18.8	8.6
	sw_	1.3	2.6	3.8	4.9	1:5	.4	٥٠					14.6	10.4
	wsw_	1.2	1.7	2.1	1.9	.6	• 1	.0					7.7	9.1
	w	,5	•7	1.4	1.3	.2	•1	•0					4.3	9.5
1	WWW	• 1	.5	6.	.3	.1							1.8	7.9
	NW I	1			. 2	F							1.1	6.8

TOTAL NUMBER OF OBSERVATIONS 6844

USAFETAC FORM 0-8-5 (QL A) PREVIOUS SOLUTIONS OF THIS FORM ARE OBSOLET

RHEIN-MAIN APT GERMANY/FRANKEURT

SURFACE WINDS

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

	_						=						
					cen	DITION							
SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	
N	.7	6	- 6	.1								1.7	Γ
NNE	1.4	2.3	2.3	1.3	٩							7.3	Ĺ
NE	2.4	4.3	2.3	1.0		0						11.0	Ĺ
ENE	3.7	3.5	- 9									8.2	Γ
E	2.7	2.2	. 3	• 0								5.2	Γ
ESE	1.4	- 8	- 1									2.3	Γ
SE	8	.2	• 0									1.0	Γ
SSE	1.0	_ 3	- 0									1.3	Γ
5	2.9	3.6	2.9	.6	.1							10.1	Γ
SSW	1.9	5.2	7.7	4.7	- 5	- 0				i		19.9	Γ
SW	1.4	2.9	4.1	4.1	. 8		•0					13.4	•
W\$W	8.	1.1	1.6	1.6	.7							5.9	Γ
w	3	6	1.1	. 8	.2							3.1	Γ
WNW	- 2	- 3	8	4	1	0						1.7	ľ
NW		5	8	3	a D	0						1.7	Γ
WMM	. 3	- 44	. 3	.1	-0							1.0	Γ
VARBL	9	, i							<u> </u>			1.0	r
CALM	\times	$\geq <$	$\ge $	><	\times	\times	> <	\mathbb{X}		><	\mathbb{X}	4.2	Ī
						€. 							٢

ISAFFTAC FORM (LR.S. (Rt. A.) SECURITY ENTRONE OF THE CORN ARE CRECIETY

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RHEIN-MAIN APT GERMANY/FRANKFURT

SURFACE WINDS

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

67-76

	_				ALL WE	ATHER						0001	2
					cı	A 155						1003	۰
	_				COM	DITIC W				 ,			
	_												
SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	
Z	1.1	•2	•1						-			1.5	-
NNE	2.6	2.0	1.1	•4								6.2	ĺ
NE	6.3	4.2	.7	•2	•1							11.5	ĺ
ENE	4.4	3.9	•7									9.0	ĺ
£	3.7	3.0	. 8	•1								7.6	Ī
ESE	1.6	•6										2.1	I
SE	1.1	1	•1									1.3	ĺ
SSE	1.1	.3										1.5	l
5	4.4	3.6	2.9 5.2	•6								11.5	I
SSW	2.4	3.9	5.2	3.7	.9							16.1	I
SW	1.5	2.6	3.0	2.9	1.0	•6		l				11.6	ĺ
WSW_		1.6	1.7	1.5	.2							5.7	
w	. 4	.4	<i>i</i> • 8	1.0	•2		l	L				2.9	l
WNW		.3	.4		•2							1.1	l
NW	.2	•2	.3	•1	•1							1.0	Į
NNW		.1										•1	Į
VARSL	.7	• 1						L				.8	
CALM	$>\!\!<$	\times	><	$>\!\!<$	\times	$\geq \leq$	$\geq \leq$	><	><	><	$>\!\!<$	8.4	l
	32.3	27.3	17.9	10.7	2.8	• 6						100.0	ĺ

USAFETAC FORM 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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0

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

	_				ALL WS	THER						0200	-050
	_				CON	PITION							
SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEA WIN SPEE
N	3	•1	2									.7	5
NNE	2.3	1.7	1.3	•6								5.9	5
NE	6.1	5.9	.4	• 3	•1							12.9	1
ENE	-5.3	3.5	7									9.5	3
E	3.0	2.7	. 8									5.5	3
ESE	1.7	.4	.1	_								2.2	2
SE	1.1	. 2										1.3	3
SSE	7	.2										.9	
\$	2.6	4.6	4.3	.4								11.9	
ssw	2.4	3.0	4.7	4.3	.7							1501	
SW	1.4	2.8	2.9	3.6	.7	•6						11.9	
WSW	1.4	1.2	1.2	1.8	.3	2	1					6.3	
W	2	.6	7	.3	. 2				<u> </u>			2.0	
WNW	2	.3	6	2	.2					<u> </u>	<u> </u>	104	8
NW	1	-1	2	3						ļ		8	•
NNW	لنعا		2							<u> </u>	İ	. 3	
VARBL		لمعدر						Ļ	Ļ	Ļ,		1.2	1
CALM	$\geq \leq$	$>\!\!<$	$\geq \leq$	> <	> <	><	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	9.0	
	30.43	27.4		11.9	2.2	.8	• 1					100.0	

TOTAL NUMBER OF OBSERVATIONS 89

USAFETAC FORM 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLET

RHEIN-MAIN APT GERHANY/FRANKFURT

SURFACE WINDS

100.0

TOTAL NUMBER OF OBSERVATIONS

5.7

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY CRSERVATIONS)

STATION			STATION	IMME					•	TEARS				MTH
						ALL WE	ATHER							-0800
														(4.4.1.)
						COR	DITION							
	SPEED (KNTS) DIR.	1.3	4-6	7 - 10	31 - 46	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
	N	.4	.3						1	1			•8	2.9
	HNE	1.7	1.7	•6	1.1				1				5.0	6.1
	NE	5.9	3.4	.9	•6				1				10.8	4.0
	ENE	6.5	4.1	.6		•1							11.2	3.5
	E	4.1	2.9	.4									7.5	3.6
	ESE	2.4	.4	•1									3.0	2.6
	ŞE	1.0											1.0	1.6
	SSE	1.2	•2										1.4	2.5
	\$	3.3	3.4	4.1	•6								11.5	5.7
	35W_	2.3	3.6	6.9	3.9	.7	• 2				L		17.6	8.4
	SW	.7	2.9	2.6	2.6	1.3							10.0	9.7
	WSW.	1.2	1.5	, Ç	1.4	.7	•1						5.3	8.9
	W	.4	.8	1.1	.6	. 2	.2						3.3	9.5
	WNW	• 1	. 3		.3	,1							1.3	9.3
	NW	• 1	•1	. 3	•6								1.1	9.6
	HNW	•2					L		L	1			•2	2.5
	VARSL	1.0	•1										1.1	1.9
	CALM	i>	\rightarrow					> <					7.8	ı

USAFETAC FORM O-8-5 (QL &) PREVIOUS EDITIONS OF THIS FORM ARE COSCIETE

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

SURFACE WINDS

TOTAL NUMBER OF OBSERVATIONS

903

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

	**				ALT BY	A96						10 A (
					CON	PITION						
SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*
N	.6	.1	• 6									1.
NNE	1.6	.9	.9	1.0					L			4.
NE	4.0	3.7	1.9	-1								9.
ENE	3.2	4.1	.8	•1								8.
E	3.5	4.0	1.4	•1								9.
ESE	1.7	1.1	.2						L		ļi	3.0
SE	1.1	-2										10
SSE	1.4											1.
\$	3.8	2.4	3.3	1.2							Li	10.
SSW	2.3		6.9	3.3	4	1						18.
SW	2.1	2.2	3.8	4.0	1.2	3			L		<u> </u>	13.
WSW	1.3	1.0	8	3.1	.3				L			6.
W	-4	.7	1.2	.6	3	3			<u> </u>		<u> </u>	3.
WNW	<u> </u>	3	.4	-6				ļ				
NW]			-7								l.
NNW	 _			L						<u> </u>		
VARBL	1.2			ļ	ļ	L			L	Ĺ		
CALM	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	3.
	38.2		22.8	14.7	2.7							100-

USAFETAC FORM 0-8-5 (OL A) previous sistions of this form and obsolete

RHEIN-MAIN APT GERMANY/FRANKFURT

SURFACE WINDS

JAN

6.9 896

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

	_					ATHER							0-1400
	_				COM	DITION				_			
SPSED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	48 - 5	≥56	*	MEAN WIND SPEED
N	1.0	.7	•2	•2				 		 		2.1	4.5
эин	1.5	1.2	1.3	.7					 	i —		4.7	
NE	2.1	4.0	1.1	•4	.2						!	7.9	5.4
ENE	1.7	3.5	1.0	•1	:							6-2	4.9
	2.6	5.0	1.8	•2								9.6	4.9
ESE	1.7	1.9	.9	٠								4.5	4.3
SE	,7	4		•1					ì			1.2	3.4
SSL	1.1	• 1							Γ			1.2	1.9
\$	3.1	2.3	2.7	•2				J	1	i		8.4	5.1
SSW	2.0	4.8	6.6	3.7	.7			L				17.7	
SW	1.1	2.5	4.7	4.8		.2	. i					14.6	10.2
WSW	1.2	1.7	1.6	3.3	.4							8.3	7.2
₩	.4	.6	1.0	.9	.6	• 2		l				3.7	11.2
WHW	.2		.,	ة •								1.6	9.6
4:W	.1	.1	.9	1.3	.2							2.7	10.9
NNW		.2	•3									•6	7.4
VARBL	1.3	•1										1.5	2.1
CALM	><	><	><	><	><		><	><	> <	><	> <	3.6	

USAFETAC FORM 0:3-5 (QL A) PREVIOUS ADITIONS OF THIS FORM AND OBSOLETE

SURFACE WINDS

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

					ALL W	ATHER						1500) = 1 7 1 (L.3 T
	-				CON	DITION	,—, <u>— , , , , </u>						
SPEED (KNTS)	1.3	4-6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	x	ME
DIR,													\$P
N N	1.8	.4	.1	• 1								2.5	
NNE	2.8	2.0	•6	. 3								5.7	
NE	2.6	3,4	.7	• 1								6.7	
ENE	3.1	3.0	1.5	• 3								8.0	
ŧ	5.1	5.3	1.0									11.4	
ESE	.8	1.1	.3									2.2	
SE	.3	• 1	• 1									.6	
SSE	1.0		<u> </u>									1.0	_
\$	3,4	4.2	3.0	• 7								11.2	
\$3W	1.9	4.8	4.7	3.7								15.2	
SW	1.7	2.7	3.9	4.7	,7	. 2						13.9	
WSW	1.0	7	2.0	2.2	- 2	2		<u></u>				6.4	<u>_</u>
W		3	1.1	.8	. 2	3	-1					4.0	
WNW	3	- 9	1.6	2							<u> </u>	3.0	
_ NW		7	1.0					<u> </u>	<u> </u>			2.2	_
'HMM		. 3	3	. 2		<u></u>			İ			1.1	_
VARIL	9		<u> </u>					L				.9	
CALM	>>	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	3.7	
	28.2		22.0	12.0		,	,					100.0	

USAFETAC TORM U-8-5 (QL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

RHEIN-MAIN APT GERMANY/FRANKFURT

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

					ALL WE	ATHER						1800) - 2
	_					A96						HOURS	8 (L.B
					CON	DITION							
···	, · · · · · · · · · · · · · · · · · · ·			·					,				
SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	3% - 40	41 - 47	48 - 55	≥ 56	*	M W
N	1.2	.4							 		 	1.7	_
NNE	3,2	1.3	•6						 	 		5.1	
NE	4.7	4.5	.9	•2	.1				i			10.4	
ENE	4.5	5.4	•7	•1				<u> </u>			<u> </u>	10.6	
E	4.8	3.9							 -			8.7	\sqcap
ESE	.7	.3						ì		1		1.0	
SE	.7	•2								1		.9	
SSE	1.0	•2										1.2	
5	4.5	4.5	2.5	1.0	.1							12.3	
SSW	1.7	3.9	6el	4.3	.2							16.3	
\$W	1.8	2,7	2.6	3.1	1.1							11.3	
WSW	.9	. 8	2.2	1.9	. 4							6.2	
W	•2	.8	1.0	.6	.2	• 2						3.0	
WNW	. 4	.4	. 9									1.8	
NW	.3	.7	.4	• 1								1.6	
NNW	.3	•1	• 1									•6	匚
VARBL	2.0	• 1										2.1	
CALM	$\geq \leq$	$>\!\!<$	\ge	$\geq \leq$	$\geq \leq$	$\geq <$	$\geq \leq$	\geq	$\geq \leq$	><		5.4	
	20.7			44.7								100 0	

TOTAL NUMBER OF OBSERVATIONS

897

USAFETAC FORM 0-8-5 (QL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

O

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

RHEIN-MAIN APT GERMANY/FRANKFURT 67-75

						ASS BITION							(LAT.)
	-												
SPEED (KNTS) DIR.	1.3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
И	1.0	,3										1.3	2,
NNE	2.3	3.0	.3	. 4								6.1	4.
NE	6.0	4.2	1.1	• 2	• 1							11.7	4,
ENE	4.7	3.8	.4									8.9	3.
E	3.2	3.8	.1									7.1	3,
ESE	1.3	9	•2									2,4	3,
SE	.8	.6										1.3	_3,
SSE	1.1	.2										1,3	2.
S	5.0	5.7	2.9	. 8								14.3	5.
SSW	2.6	3.4	7.0	3.3	. 8	• 2						17.3	8.
SW	1.2	1.9	2.4	2.2	.6	2						8.6	9.
WSW	.9	.9	2.2	1.1	,2	1	• 1					5.6	9.
w	•6	.8	.9	1.3	.4							4.0	9,
MNM.		. 8	.6	.4								1.8	7,
NW	. 3	.3	•2	1								1.0	5.
NNW	1	.2										.3	4,
VARBL	.7											.7	1.
CALM	\boxtimes	$\geq \leq$	\times	$\geq \leq$	\times	$\geq \leq$	\ge	$\geq \leq$	$\geq \leq$	> <	$\geq \leq$	6.2	
	31.8	30.8		10.0	2.1	. 6	1					100.0	5.

USAFETAC FORM 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

 \mathbf{C}

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 N NNE 3.5 4.6 3.2 NE 5.8 8.8 2.7 2.6 ESE SE SSE S 3.2 SSW 2.6 3.6 3.3 .6 SW 1.6 WSW .6 WNW •4 5.0 NW 1.2 NNW VARSL • 9 CALM

TOTAL NUMBER OF OBSERVATIONS 808

100.0

5.5

USAFETAC FORM 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

SURFACE WINDS

FEB

0300-0500

5.5

808

TOTAL NUMBER OF OBSERVATION

PERCENTAGE FREQUENCY OF WIND DIRECTION AND, SPEED (FROM HOURLY OBSERVATIONS)

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

	_				ALL WE	ATHER						0300	-0500
	-				COM	DITION							
SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	.7	•7	.5	•1				 		†——		2.1	5.2
NNE	3.1	3.0	4,5	1.5						T		12.0	6.5
NE	5.9	7.9	2.6	•1				<u> </u>				16.6	4.4
ENE	5.0	3.1	•5	•1						† -		8.7	3.4
5	2.7	1.0	•2					i		1		4.0	3.3
ESE	1.4	•2						1		<u> </u>		1.6	1.9
SE	.9	•2						<u> </u>				1.1	2.2
SSE	.6	.4	•1						i			1.1	3.7
S	2.6	2.5	2.5	1.0								8.5	5.6
SSW	3.1	4.2	4.0	2.6	•1							14.0	6.8
sw	1.0	1.9	1.6	3.8	.9	• 5						9.7	10.7
WSW	1.2	1.2	1.4	. 5	•2	• 2						4.8	7,7
w		.9	• 9	•2	•2							2.2	8.6
WNW	.2	•2	•2	• 2		•1						1.2	10.0
NW		.4	1.2	.4								2.0	8.3
NNW		.9	•1									1.0	5.1
VARBL	1.0	.1										1.1	2.0
CALM		$>\!\!<$	><	><	><	><	><	$\geq <$	$\geq <$	$\triangleright <$	$\geq <$	8.3	

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

	-				•								
0-0	0600		_				ATHER	ALL WE					
					<u></u>								
							ITIOR	CON					
												_	
ME W	*	≥56	48 - 55	41 - 47	34 - 40	28 - 33	22 - 27	17 - 21	11 - 16	7 - 10	4 - 6	1 - 3	SPEED (KNTS) DIR.
	2.5									.4	1.0	1.1	N
	10.1							•1	2.1	2.0	3.3	2.6	NNE
	17.2								•4	3.1	7.7	6.1	NE
1	9.4									1.0	4.1	4.3	ENE
	6.2									.2	1.5	4.4	E
	1.5										.4	1.1	ESE
	1.1											1.1	SE
	.7										-1	•6	SSE
	8.3								•2	2.7	2.5	2,8	5
	15.6							.2	3.3	6.1	3.7	2.2	SSW
	10.4						.4	. 2	3.0	2.3	2.6	1.9	SW
I	3.8							.2	•6	1.4	.7	, 9	WSW
	3.0						1	.5	•2	.6	.6	.7	w
	2.1							. 2	.2	.9	. 5		WNW
	1.0								.2	.5	1	-1	NW
<u> </u>	1.0									. 2	2	- 5	NNW
<u> </u>	-6						ا ــــــــــــــــــــــــــــــــــــ					6	VARBL
L.	5.6	$\geq \leq$	><	$>\!\!<$	><	$>\!\!\!<$	$\geq \leq 1$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	CALM
Ţ	100.0					j	.5	1.6	10.4	21.4	29.0	31.4	

USAFETAC FORM 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

C

SURFACE WINDS

TOTAL NUMBER OF OBSERVATIONS

810

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

RHEIN-MAIN APT GERMANY/FRANKFURT

					CI	ATHER						NO
					COM	DITION						
SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*
N	1.4	1.0	•6	•2								3.2
NNE	1.1	3.5	3.2	3.0	.4							11.1
NE	2.1	3.6	5.2	•6								11.2
ENE	2.3	4.2	1.4	•6								8.2
E	3.7	3.8	1.5	•1								9,1
ESE	1.7	.9	. 4									3.0
SE	.5	. 4										•
SSE	1.2	•2										1.5
S	2.5	2.0	2.1	•9								7.4
SSW	1.5	3.7	5.2	5.4	.5							16.3
sw	1.5	2.6	3.5	2.8	.2	.4	•1		L			11.
WSW	1.2	1.5	1.4	•7	.2					L		5,1
w	.2	. 9	• 9	1.7	1.0							4.
WNW	•1	. 5	.7	•4	.1							1.0
NW		.1	•5	• 2								•
NNW	.5		.4	•2					<u> </u>			1.
VARBL	.9										L	•
CALM		$>\!\!<$	><	><	><	\times	\times	><				2.0

USAFETAC FORM 0-8-5 (OL A) CHEVIOUS EDITIONS OF THIS FORM AND OBSOLET

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

RHEIN-HAIN APT GERMANY/FRANKFURT

	_				ALL WE	aTHER.						1200	-1400 (L.8 T.)
				····	COM	DITION							
SPEED (KNTS) DiR.	1.3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N.	•6	1.0	1.7							 		4.0	7.0
NNE	1.1	3.0	5.3	2.7					 	 		12.4	8.2
NE.	9.4	4.0	4.0	1.1	.2				 	 		9.4	7.2
ENE	1.2	2.1	1.6	- •2					 		i	5.2	5.5
E	2.7	2.9	2.2						 	 		7.8	5.0
ESE	.6	1.0	.7	•1						1		2.5	5.9
SE	.4	.2	- 2						 	 		.9	4,1
SSE	. 5	.1	•1	•1					 	l		•9	4.6
\$	2.1	2.1	1.4	.5	.1					1		6.2	5,5
SSW	1.0	2.0	4.1	3.7	.5							11.3	9,0
SW_	.9	2.5	3.8	3.3	.7	.2	•1					11.6	9.9
WSW	1.0	2.1	1.6	2.7	1.4	.1	.1					9.0	10.6
w	. 9	.7	1.2	1.9	.6	4	.1					5.8	11.1
WNW	. 4	.7	1.2	7	. 2							3.3	9.2
NW	.6	. 4	1.4	.6								3,0	7.6
NNY		.6	5	. 5								1.6	8.0
VARBL	3.3	.2										3.6	2.2
CALM	><	$\geq \leq$	><	><	\times	><	$>\!\!<$	><	><		><	1.5	
	17.7	25.7	31.2	19.0	3.8	.7	- 4					100.0	7.7
	·								TOTAL NU	VISER OF OBS	ERVATIONS		807

USAFETAC PORM 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

SURFACE WINDS

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

					ALL WE	ATHER						HOUR	
					CI	A96						ROUE	•
	_				CCX	DITION							
					•••								
	-												
SPEED									1				٢
(KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	
N	1.9	1.4	1.2	•:2								4.7	Ī
NNE	1.6	4.0	5.2	3.1	•1			i				14.0	Γ
NE	1.9	3.5	2.6	1.2								9.1	
ENE	1.4	2.3	1.1	•1								4.9	Γ
E	2.1	3.7	•5	•2				1	1			6.5	Γ
ESE	2.5	1.6	.4							ii		4.4	Γ
\$E	•2	1.0										1.2	Γ
SSE	1.1	.6	•1									1.9	Γ
5	2.6	2.5	2.0	•2								7.3	L
SSW	1.2	1.7	2.2	2.2	•2							7.7	Ē
sw	1.4	2.5	1.5	4.3	.5	•4						10.5	Γ
wsw	1.4	1.9	1.2	3.0	.7							8.1	L
W	.5	1.0	1.7	1.4	.7	. 2						5.6	
WNW	•6	1.4	1.6	• 9								4.4	-
NW	.4	.7	1.5	•2								2.8	
NNW	.2	.9	•6	• 1				I				1.9	
VARBL	1.6											1.6	I
CALM	\times	X	$\geq \leq$	\times	X	\mathbb{X}	\times	\boxtimes	$\supset <$	\times	\times	3.3	
	22.5	30.5	23.5	17.3	2.3	•6						100.0	Γ

USAFETAC FORM 0-8-5 (OF A) PREVIOUS EDITIONS OF THIS SORM AND ORSCIET

SURFACE WINDS

TOTA: NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

					CON	DITION						
	_											
SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*
N	1.6	1.6	• 2	•1								3.
NNE	3.3	4.2	3.2	2.7	.1							13.4
NE	3.7	5.6	2.4	1.2								12.9
ENE	2.8	3.7	.9							il		7.3
E	2.6	2.2	. 1									4.5
ESE	2.1	1.2								<u> i</u>		3.3
SE	1.2	-1	• 1					ļ				1.5
SSE	•7	. 2		• 1								1.
<u> </u>	2.6	2.7	1.7	- 4				ļ				7.
SSW	1.8	2.8	3.7	3.3	•6			ļ				12.
SW	2.2	1.7	1.8	3.7	•2	2		 				9.0
WSW	1.8	2.3	1.8	1.5	•2			 		<u> </u>		6.
WNW	.4	1.0	1.5	1.0	•1			 -		 		2.
NW	.6	1.1	1.0	•1								2.
NNW	.7	1.0	-6					 		 		2.
VARBL	.6	v.v	• • •					 		 		
CALM		\sim				$\overline{}$	>		\sim			4.

USAFETAC FORM 0-8-5 (QL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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SURFACE WINDS

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PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

RHEIN-HAIN APT GERMANY/FRANKFURT /1-76

	_				ALL WE	A7. IFK						2100 200	-2300
	_				CON	PITION							
SPEED (KNTS) DIR.	1.3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1.1	1.1	.4	•2								2.8	4.7
NNE	4.9	4.6	3.5	1.1					1			14.1	5.6
NE	4.9	7.9	2.9	•7					1	!		16.4	5.0
ENE	3.0	2.9	•7									6.7	3.9
E	1.9	.7	•1							1		2.8	2.8
ESE	1.6	•2										1.8	2.6
SE	.9	•1	•1					1	T	1-1		1.1	2.4
SSE	1.1	•1								1		1.2	2.3
\$	4.0	2.1	1.7	•7	-1				T			8.6	5.2
SSW	2.3	2.7	4.0	3.0	.6	•1						12.8	8.2
SW	1.6	.9	3.2	3.0	1.0							9.6	9.6
WSW	1.2	1.0	1.2	1.2	• 1	• i						4.9	7.9
W	.7	1.1	1.0	•2	.4	l						3.4	7.5
WNW	5	.9	.7	•1	•1							2.3	6.5
NW	1	.9	.5	•1								1.6	6.5
NNW	.4	.4	.5	•1								1.3	5.8
VARBL	.9	.1										1.0	2.0
CALM	\boxtimes	$\geq \leq$	$\geq \leq$	$\geq \leq$	\times	$\geq \leq$	\geq	\geq	$\geq \leq$	\boxtimes	\times	7.4	
	31.1	27.6	20.6	10.7	2.3	.2			1			100.0	5.6

TOTAL NUMBER OF OBSERVATIONS 821

USAFETAC FORM 0-8-5 (QL. A) previous editions of this form and obsolet

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SURFACE WINDS

TOTAL NUMBER OF OBSERVATIONS

MAR

873

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

RHEIN-HAIN APT GERMANY/FRANKFURT 67-76

		STATIO	H MANE							. DATH					
					ALL WE	ATHER		28 · 33 34 · 40 41 · 47 48 · 55 ≥ 50			0000				
					CI	,A96						MOUR	(L.S T.		
					COM	DITION									
															
SPEED	Т							 	Γ			· · · · · · · · · · · · · · · · · · ·	ME		
(KNTS)	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	WIN		
N			.7					 	 -			2.2	5		
NNE	-5	1.0						 		<u> </u>		14.8	Ť		
	2.7	3.6	6.2	2.1	.2								' 5		
NE	6.2	9.0	4.4	.7	•2			 	 			20,5	- 3		
ENE	3.7	1.8	•3									3.3	3		
E ESE	2.2	.9	•2					 -	 			3.3	-î		
SE	•7							 		i			- 2		
SSE	•6	.1						 	 			.8			
5	.8							 		 		9.3	- 5		
	3.9	2.7	1.9	- 6	-1			 	 			13.6	6		
SSW	2.9	4.9	3.6	2.2	•1			 	 			9.7	8		
SW	1.6	3.0	1.8	3.0	•2	-1	 -	 	 			4.6	- 9		
W5W			1.3	1.0					 	├──-		4.4	'		
w	.8	1.5		1.1	•2		<u> </u>	 -	 			1.3	7		
WNW	1	.5	.2	•5				 -	 	 		1.5	7		
NNW				•5				 	 	<u> </u>		1.4	7		
VARBL	•2	- 6	.2	.3			<u> </u>					•8	i		
	<- <u>'</u>	<u> -₁</u>				<>						4.7			
CALM		$\geq \leq$	\geq	$\geq \leq$	$\geq \leq$	$\geq \leq$		\geq	\geq	\geq	$\geq \leq$	7.7			
	28.3	31.2	22.0	11.9	1.8	•1						100.0	5		

USAFETAC FORM 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE 049DLETE

RHEIN-MAIN APT GERMANY/FRANKFURT

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SURFACE WINDS

TOTAL NUMBER OF OBSERVATIONS

0300-0500 HOURS (L A.T.)

890

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ALL WEATHER

SPEED (KNTS) DIR. MEAN WIND SPEED 1 - 3 17 - 21 7 - 10 11 - 16 22 - 27 28 - 33 4.3 NNE 13.7 2.1 3.8 5.5 7.3 4.9 3.9 NE 7.9 8.3 ENE 4.0 2.5 6.6 3.3 2.8 2.8 2.0 ESE SE .4 1.0 SSE 1.6 7 8.5 4.7 6.8 SSW 2.4 5.2 3.6 2.2 13.5 SW 2.0 1.7 2.2 3.3 9,9 8.8 WSW 1.3 1.2 1.5 2.6 5.3 1.0 WNW 6,8 NW 1.2 6.8 NNW 1.1 405 YARBL 1.2 6.1 CALM 100.0

USAFETAC FORM G-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE DESOLETE

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SURFACE WINDS

TOTAL NUMBER OF OBSERVATIONS

893

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

35032	RHEIN-MAIN APT GERMANY/FRANKFURT 67-76												MAR		
5		ALL WEATHER CLASS											0600-08 sours (LS.T.		
		-				con	DITION								
	SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED	
	N	.9	1.5	.8					 				3.1	4.9	
	NNE	1.8	3.2		3.5	•2				T			12.9	8.0	
	NE	4.8	8.3	3.7	1.1				<u> </u>	 			17.9	5.4	
	ENE	4.7	2.2	1.5	•1				1		<u> </u>		€.5	4.0	
	F	2.5	.8										4.0	3.6	
	ESE	. 8	•1	.1									1.0	2.3	
	SE	.9	•1										1.0	2.6	
	SSE	.9	•2							i	1		1.1	2.4	
	\$	2.1	2.9	2.2	•2						Γ		7.5	5.4	
	SSW	1.7	5.0	4.9	2.6	.8							15.0	7.9	
	SW	.7	2.1	2.2	2.7	1.6	• 1						9.4	10.4	
	wsw	.7	. 8	1.6	1.3	.6							5.0	9.7	
	W	1 .3	.7	.7	.6	.2							2.5	8.6	
	WNW	.3	-4	1.5	•2		<u> </u>			<u> </u>			2.5	7.4	
	NW	ļ	.2	.8	•2								1.2	8.5	
	NHW	-1	.3	.2	-6	<u></u>							1.2	9.5	
	VARSL	. 9	<u> </u>	L	L							L	.9	1.8	
	CALM	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	\boxtimes	5.2		
		24.2	29.0	25.0	15.1	3.4	.2						100.0	6.4	

USAFETAC FORM 0-8-5 (OL A) PREVIOUS POLITICUS OF THIS BODY AND CHACKET

35:32 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

SURFACE WINDS

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ALL WEATHER

					COM	MOTTO						
SFEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*
N	. 8	1.7	1.1	•2								3,9
NNE	1.4	2.7	3.3	3.9	5							11.7
NR	. 8	4.4	4.4	2.3	. 3							12.2
ENE	1.1	2.3	3.9	. 8								8.0
E	1.1	3.2	2.5									6.8
rse	2	.2	. 8									1.2
SE	. 5		.2	1								. 8
\$5E	. 3	3										7
5	. 5	1.0	2.2	1.1								4.8
SSW	1.5	2.5	5.7	3.7	. 3							13.7
sw	.9	1.9	3.1	3.3	1.1	. 5						10.8
WSW	1.6	1.0	2.3	2.0	_lel	- 6						8.6
w	2	7	1.9	2.8	8	- 2						_6.7
WNW	المسا	لغم	9	2				<u> </u>				1.9
NW	.:	6	1.0	1.6								3.2
NNW	<u> </u>	2	5	6				<u> </u>	<u> </u>	ļl		1.2
VARBL	1.5	1							Ĺ,	<u> </u>		1.6
CALM	$\geq \leq$	><	><	><	><	><	><	$\geq <$	$\geq <$		><	2.2
	12.5	23.5	_33.7		4.3	1.2						100.0

USAFETAC FORM 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

SURFACE WINDS

TOTAL NUMBER OF OBSERVATIONS

876

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

RHEIN-MAIN APT GERMANY/ CANKFURT 67-76

	_			1200=1400 HOURS (L.E.T.)									
	-												
SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.5	1.9	.6	•5								3.4	6.
NNE	,5		3.0	4.2	.7						j	11.3	9.7
NE	.3	3.1	4.1	3.0	.2							10.7	8.6
ENE	.3	1.3	2.4	•6								4.5	7.5
ŧ	.3	ڏ٠١.	2.6									4.5	6.8
ESE	• 1	1.4	1.1									2.6	6.!
SE	• 3	.3	8	• 1								1.6	6.2
SSE	-1	.1										•2	4.0
S	.9	2.2	1.1	•7	• 1							5.0	6.6
ssw	.5	2.1	3.8	3.8	.7							10.7	9.
sw	.9	1.6	2.9	4.1	1.5	.6						11.5	11.
WSW	1.1	1.8	2.4	4.0	2.3	.7	•1			<u> </u>		12.4	11.0
w	1.0	1.5	1.4	2.4	1.0		.2		<u> </u>		<u> </u>	7.6	10.6
WNW	.5	.7	1.5	1.6	,2							4.6	10.4
NW .		.3	.9	1.6	•1				 _	ļ		3.0	11,0
NNW		. 8	•7	•6	- 2				ļ	<u> </u>		2.4	9.0
VARBL	2.9	. 5								ļ,		3.4	2.
CALM	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	>>	$\geq \leq$	$\geq \leq$	$\geq \leq$	><	• 5	
	10.4	23.9	29.3	27.1	7.1	1.4	. 5			1	1	100.0	9.2

USAFETAC FORM 0-8-5 (QL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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RHEIN-MAIN APT GERMANY/FRANKFURT

SURFACE WINDS

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

	-				ALL WE	ATHER			,			1500) <u>- 1</u> 700
SPEED (KNTS) DIR.	1-3	4 - 6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	48 - 55	≥>6	*	MEAN WIND SPEED
										<u> </u>			
N	1.0	1.6	.7	• 5								3.8	5.6
NNE	1.6	1.6	4.5	4.9	. 5							13.2	9.4
NE	5	2.8	2.6	2.9	- 2			<u> </u>				9.0	
ENE	. 2	1.6	2.1	•2				L	<u> </u>		ļ	4.1	6.9
_ E	1.7	2.6	2.0	-1								6.4	5,0
ESE	1.0	1.1	• 9									3.1	4.8
SE	. 5	.7	.2									1.4	4.3
SSE	. 7	.6	. 2									1.5	4.2
\$. 8	1.6	1.8	•6								4.8	6.6
SSW	2	1.5	2.4	1.5	.3							6.0	9.1
SW	.3	2.0	5.3	4.8	.8	• 1	-1					13.4	10.7
WSW	. 8	1.4	1.7	3.7	2.1	r 1	•1					9.9	12.0
w	.1	. 8	1.7	2.8	1.0	1						6.5	12.0
WNW	.1	. 8	2.2	1.6	.2			l				4.9	10.0
NW	. 2	1.1	2.3	1.7	.1	. 1			i			5.6	9.3
NNW		.9	1.4	1.7								4.0	9.1
'/ARBL	1.4	.2										1.6	2.4
CALM	X	\mathbb{X}	$\geq \leq$	$\geq \leq$	X	\times	$\geq \leq$	$\geq <$	\geq	\geq	$\supset <$	•7	
							_						

USAFETAC FORM 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

35032	RHEI	N-MAIN			FRANKE	URT	67	<u>-76</u>						AR
STATION			STATION	MANE					1	FARS			*	NTHO
		_				ALL WE	THER							-2000
					HOURS	(L.S T.)								
		_												
						COM	DITION							
		-						·						
	SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
	М	1.2	1.3	.4			·		 	 			3.0	4.2
	NNE	2.0	3.4	4.7	3.9	•1							14.1	8.0
	NE	2.4	3.7	3.8	2.5								12.3	6.9
	21.12									·	1			

(KNTS) DIR.	1.3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	WIND SPEED
N	1.2	1.3	.4									3.0	4.2
NNE	2.0	3.4	4.7	3.9	•1			T				14.1	8.0
NE	2.4	3.7	3.8	2.5								12.3	6.9
ENE	2.5	_ 1.8	1.0	•3								5.6	4.7
E	3.1	2.1	.7									5.9	3.8
ESE	1.3	4	•2									2.0	3.2
SE	1.0	.4	•1									1.6	3.0
SSE	1.2	.9	• 1	•2				Ţ				2.5	4.3
S	3.5	2.2	•7	•7						Ī .		7.1	4.5
SSW	1.3	2.0	1.8	2.6								7.7	8.0
SW	.7	2.0	3.8	4.0	•6	. 3						11.4	:0.2
WSW	• 4	.9	1.7	1.8	• 2							5.0	9.5
w	.4	. 8	1.6	1.2	.1							4.1	8.5
WNW	• 2	1.6	1.6	1.6								4.9	8.1
NW	.3	1.8	2.6	.8	•1							5.6	7.8
NNW	• 3	1.1	.7									2.1	5.7
VARSL	1.5	•2										1.7	2.1
CALM	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	\geq	$\geq \leq$	$\geq \leq$		3.2	
	23.5	26.8	25.4	19.6	1.1	. 3						100.0	6.7

TOTAL NUMBER OF OBSERVATIONS 893

USAFETAC AR 44 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLET

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SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

35032 STATION	RHEI	N-MAIN	APT GE	RMANY/	FRANKF	URT	67-	76		TEARS				AR
						ALL WE	ATHER						-2100	-2300 ((4.1.)
		-				CONI	DITION							
	SPEED (KNTS) DIR.	1 - 3	4+5	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
	N	1.3	.7	- 6				i ———					2.5	3.8
	NNE	3.0	4.0	4.8	2.5	. 3							14.6	7.2
	NE	3.8	6.6	4.8	1.7	3				Γ –			_17.3	6.2
	ENE	2.5	1.3	. 8	• 1								4.7	4.0
	E	1.8	1.0	•2									3.1	3,5
	ESE	1.0	. 5										1.5	3.0
	SE	. 8	.2										1.0	2,3
	SSE	. 9	.3	1									1.4	3,3
	\$	2.7	3.4	1.6	.6								8,3	5.2
	SSW	2.9	2.6	2,5	2.2	.1							10.3	6,9
	SW	1.4	2.6	2.6	3.8	. 5			l				10.9	8.8
	WSW	. 5	1.5	7:01	1.4	. 3			<u> </u>				5.7	8.8
į	w	3	1.6	1.0	.6	2		L					3.5	7.7
	WNW		1.1	1.6	.6								3,3	8.0
Į	NW	. 2	5	1.4	5				<u> </u>	ļ			2.5	8.2
j	NNW	.3		.6	.5			<u> </u>					1.5	7.8
į	VARBL	1.4	2					Ļ	Ļ	Ļ			1.6	2.1
l	CALM	><	><	$>\!\!<$	><	><	><	><	><	><	><	><	6.3	

TOTAL NUMBER OF OBSERVATIONS 875

100.0

USAFETAC FORM 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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35032 RHEIN-MAIN APT GERMANY/FRANKFURY 67-76

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

					ALL WE	A96						OOC	8 (L.S.
					con	DITION							
SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MI W SP
N I	1.2	2.2	•2	•2								3.8	
NNE	3.0	7.9	6.2	1.8	-1							19.0	
NE	5.7	6.8	2.4	1.2	1							16.3	
ENE	3.5	1.2	• 1									4.8	l
ž	1.8	.7										2.5	
ESE	1.2	.2										1.4	İ
SE	. 2	1	.1									• 5	
SSE	_1.1	4					L					1.4	
5	2.4	1.2	1.0	. 2								4.8	
SSW	1.9	3.1	3.1	1.7								9.8	l
SW	.7	2.3	3.2	3.0	. 2							9,4	
WSW	. 2	1.2	1.3	1.0	. 2	• 1						4.1	
w	- 1	1.2	1.1	. 4								2.9	
WNW	. 4	1.2	1.6	• 2					l			3.3	
NW	. 2	1.3	1.6	• 2								3.3	
WWW	• i	.7	5									1.3	
VARBL	1.8											1.8	
CALM	><	$\geq \leq$	\times	> <	$\geq <$	$\geq \leq$	\geq	$\geq <$	\geq	><	\geq	9.4	
	25.6	31.7	22.4	9.9	. 8	. 1						100.0	

USAFETAC FORM 0-8-5 (OL A) PREVIOUS ITIONS OF THIS FORM ARE OBSOLETE

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

			·	· 	ALL WE	ATHER						0300	05(((1 7.)
					COM	DITION				 -			
SPEED						· · · · · · · · · · · · · · · · · · ·	<u></u>		<u>-</u>	— —		 	MEA
KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	9 5	WIN
×	1.8	1.5	.4						İ			3.6	3
NNE	1.6	2.8	6.2	2.6	• 2							13.5	8
NE	8.6	8.5	1.6	1.2								19.9	4
ENE	5.4	2.0					1	Ī				7.4	2
E	3.2	.6					i					3.8	
ESE	.9	.1						í				1.1	7
SE	.4											. 4	1
SSE	.7	- 1										.8	i
S	3.2	2.8	.9	.2								7.2	- 1
SSW	1.4	2.0	4.9	2.0	,1							10.5	
SW	9	1.5	3.4	2.6	•5	• 1						9.0	
wsw	_ 8	1.2	.9	.4	•2							3.5	(
w	7	. 8	1.3	•7	.1							3.6	
WNW	• 2	1.5	1.2	.7			Ì					3.6	
NW	, 4	.4	. 8	• 2								1.8	(
NNW	6	.6	.4									1.5	
VARBL	• 5											.5	
CALM	$\geq \leq$	$\geq <$	><	$\geq \leq$	$\geq <$	\ge	\geq	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	8,3	
	31.3	26.4	22.1	10.6	1.2							100.0	

USAFETAC FORM 0-8-5 (QL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

C

C

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

35032 STATION	RHEI	N-MAIN	APT GE	RMANY	<u>ERANKE</u>	URT	67-	-76		YEARS			- <u>A</u>	PR
						ALL WE	ATHER						0600 HOURS	-0800
						сон	BITION							
!	SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	40 - 55	≥56	*	MEAN WIND SPEED
	N	.6	.6	•7		.1					·		2.0	6.1
	NNE	1.9	3.1	5.5	5.1	.3			1		1		15.9	8.5
	NE	4.1	6.7	5.1	2.2								18.1	6.1
	ENE	4.1	2.0	.8	•1				[7.0	3,8
	E	2.3	1.2	5									3.9	3.5
	ESE	. 8	.1										. 9	1.9
	5E			l										
	SSE	6	.1										7	2.7
	<u> </u>	1.6	1.2	1.0	.2								4.1	4.7
	SSW	. 8	2.8	5.0	3.7	1				<u> </u>	<u> </u>		12.4	8,4
	sw	1.0	1.9	4.1	3.2	.6	2	 _	<u> </u>	ļ	<u> </u>		11.0	9.3
	WSW	9	1.0	1.2	1.6	1		<u> </u>	ļ				4,9	8.5
	w	1.3	9	9	6	1		 			<u> </u>		3.8	6.4
	WNW	-2	9	1.5	8_				ļ		L		3.5	7.7
	NW NW	6	- 8	1.4	3				 	ļ			3.1	7.1
	NNW	-2	7	1.0				<u> </u>	<u> </u>	ļ	<u> </u>		2.0	6.5
	VARBL	1.2							Ļ	 	 		1.3	1.6
	CALM	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	5.5	
	L	22.2	24.1	28.7	18.0	1.4		<u> </u>	<u></u>	<u> </u>	<u> </u>	<u></u>	100.0	6.6

TOTAL NUMBER OF OBSERVATIONS

USAFETAC FORM 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

35032 RHEIN-HAIN APT GERMANY/FRANKFURT 67-76

SURFACE WINDS

TOTAL NUMBER OF OBSERVATIONS

852

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

	_				ALL WE	ATHER						0900	-1100
					E	A96						MOGR	\$ (L3 T.)
	_				COM	DITION		·					
	_			·									
SPEED (KNTS)	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND
DIR.									<u> </u>				SPEED
N	1.3	1.8	1.2	.5	.4			l		<u> </u>		5.0	6.7
NNE	.9	2.5	6.2	4.3	-,4		L	L		<u> </u>	l	14.3	9.3
NE	.5	2.0	4.6	3.2								10.2	9.1
ENE	1.2	1.6	1.6	•4						Ĭ		4.8	6.2
E	1.4	2.2	1.8	•1								5.5	5.3
ESE	5	.5	•6									1.5	4.9
SE	.1											•1	3.0
SSE	.4	• 2	•1									•7	4.5
5	.6	1.1	1.2	•4								3.2	6.4
SSW	.8	1.8	3.8	2.9	•1							9.4	8.7
sw	.7	1.5	3.4	4.5	2.1	.4						12.6	11.5
wsw	1.4	.8	1.2	2.3	1.5	. 2						7.5	10.8
w	.7	1.3	2.0	1.3	.5							5.8	8.9
WNW	•2	1.3	1.8	2.0								5.6	9.5
NW		.7	1.6	1.6		•1						4.1	10.1
WMM	.5	1.1	.6	•4								2.5	6.4
VARBL	5.0	1.5		<u>-</u> -								6.6	2.5
CALM	$\supset <$	$\supset <$	$\supset <$	> <	> <	> <	$\supset <$	$\supset <$	$\supset \subset$	$\supset \subset$	> <	•6	
								T		T			

USAFETAC FORM D.S.S. (Of A) MISSION STUTION OF THE SORM AND CASCASTS

DATA PROCESSING BRANCH ETAC/USAF SURFACE WINDS AIR WEATHER SERVICE/MA: PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS) C RHEIN-MAIN AP GERMANY/FRANKFURT 67-76 35032 1200-1400 SPEED (KNTS) DIR. MEAN WIND SPEED 1 - 3 4 - 6 7 - 10 17 - 21 22 - 27 41 - 47 ≥56 11 - 16 5.5 N 11.9 10.1 NNE .6 2.0 3.5 5.3 NE 10.1 10.0 1.2 3.6 4.6 • 4 ENE 3.2 1.0 1.8 6.6 ESE 1.7 8.0 •6 1.6 6.5 1.0 SSE 4.3 1.0 0 3 8.0 1.4 3.2 2.8 3.6 6.9 SSW 1.9 10.9 11.8 1.3 C 11.7 10.3 WSW 2.4 3.5 2.0 .6 1.6 2.9 8.7 1.3 3.4 WNW 5.5 8.3 1.8 •8 0 9.1 4.6 NW 1.0 <u>4.3</u> 5.5 VARSL 3.3 9.4

TOTAL NUMBER OF OBSERVATIONS

835

C

C

C

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

35032	RHEI	N-MAIN	APT GE	RMANI	'FRANKF	URT	67-	-7 6					A	PR
STATION			STATION	NAME						TEARS				NTH
						ALL WE	ATHER						1500	-1700
		_					LASS						HOUSE	(L.S.T.)
						COM	BITION							
		_												
	SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 23	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
	N	7	1.9	1.8	•4			 		İ	i — —		4.7	6.4
	NNE	•2	2.1	3.1	4.9	.4							10.7	10.2
	NE	•1		4.2	3.4	•7					 		10.0	10.0
	ENE	.4		2.1	•9								4.9	7.8
	E	.4	1.4	2.1	•2			 		 	1		4.1	6.8
	ESE	.9	1.9	1.1	•1					1			4.0	5.3
	SE	.4	1.4	•2					<u> </u>				2.0	4.9
	SSE	•1	.7	•1									•9	5.0
	\$	•7	1.6	1.4	•7				<u> </u>	1	i		4.5	7.2
	ssw	•5	1.8	1.8	2.4								6.4	8.9
	sw	•2	1.1	2.4	2.8	.8	•4						7.6	$\Pi \cdot \Pi$
	WsW	•1		3.1	3.4	1.4	•4						9.5	11.9
	w	.4		2.0	3.4	.6	<u> </u>			1			7.4	10.5
	WNW	i	1.6	1.9		•2				1			6.2	9.8
														

TOTAL NUMBER OF OBSERVATIONS 850

9.1

USAFETAC FORM 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

SURFACE WINDS

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

	_	· · · · · ·			ALL WE	ATHER						1800)=200((LS.T.)
					CON	BITION							
SPEED	1.3	4-6								_			MEAN WIND
(KNTS)	'	***	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	SPEED
N	1.5	3.2	1.4	1.0								7.1	5.8
NNE	6	3.0	2.9	3.3	1							9.9	8.8
NE	1.3	3.7	4.6	2.0								11.6	7.4
ENE	2.0	2.9	1.1	• 4					<u> </u>			6.3	4.9
E	4.8	2.5	.4					<u> </u>				7.6	3 . 3
ESE	1.5	.8	.2						L			2.6	3.2
SE	1.9	. 2	• 1						L			2.3	2.7
SSE	1.2	6										1.8	3.0
<u> </u>	1.5	2.6	1.8	• 4					L			6.3	5.5
SSW	1.5	1.3	2.5	•7								5.1	6.6
SW_	5	1.0	2.7	1.9	. 2				l			6.3	9.2
wsw	- 2	1.2	1.3	2.4	. 5	. 4						5.9	11.1
_w	.2	1.3	2.4	1.3	1							5.3	8.6
WNW	5	1.4	1.4	•7								4.0	7.2
NW		1.5	3.8	1.3								7.0	8.0
NNW	.6	1.5	2.6	1.2	1			l				6.1	8.0
VARBL	1.0							L				1.1	1.8
CAUA	><	$>\!\!<$	\times	><	><	><	><		$\triangleright <$	><	><	2.7	
	21.3	28.9	29.7	16.5	1.1	. 4						100.0	6.7

USAFETAC FORM 0-8-5 (QL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

ËTAC/US	ROCESSIN SAF ATHER SE			· P		AGE FREG ECTION HOURLY	AND SI	PEED		•	SUR	FACE	WIN	IDS
35032 STATION	RHEI	N-MAIN -	APT GE	RMANY/	FRANKF	ALL WE		76		EARS				PR -230
		_				COR	PITION							
	SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAI WINI SPEEI
	N NNE	1.3	3.3 5.0	4.9	1.8	•2							5.0 15.9	6
	NE ENE	2.5	7.9	3.5	•8								4.8	5. 3.
		2.0	1.01											
	ESE SE	2.0 1.2 .8	1.0 .6	•1									1.8	2.
	E ESE SE SSE S	1.2 .8 .8	-6 -2 -4 1.7	1.7	1.2	3							1.8 1.2 1.2 4.9	2 · 2 · 5 ·
	E ESE SE SSE	1.2 .8 .8	•6 •2 •4	1.7 3.5 3.2 1.6	1.2 2.5 1.0	•2							1.8 1.2 1.2 4.9 8.8 7.4 5.6	2 5 7 9
	E ESE SE SSE S SW WSW W WNW	1.2 .8 .8 1.6 1.8 .6 1.3 .8	.6 .2 .4 1.7 2.2 .6 1.4 1.0	1.7 3.5 3.2 1.6 1.2	2.5 1.0 .6	.5							1.8 1.2 1.2 4.9 8.8 7.4 5.6 3.6	2 2 5 7 9 7 6
	E ESE SE SE SSE S SW WSW W	1.2 .8 .8 1.6 1.8 .6	-6 -2 -4 1.7 2.2 -6 1.4	1.7 3.5 3.2 1.6	2.5 1.0 .6	.5							1.8 1.2 1.2 4.9 8.8 7.4 5.6	2

USAFETAC FORM 0-8-5 (OL A) PREVIOUS SOUTIONS OF THIS

SURFACE WINDS

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

35032 STATION	RHEI	N-MAIN	APT GE	RHANY/	FRANKF	URT	67-	76	 ,	£438				AY
		_				ALL WE	ATHER						0000 M 70K	-0200 ((11)
		-				COR	DITION				_			
	SPEED (KNTS) DIR.	1.3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
	N	.8	.9	•3	•1								2.2	4.7
	NNE	3.8	4.5	3.3	. 9								12.6	5.5
	NE	8.7	7.2	2.4	•3								18.7	4.4
	ENE	4.4	1.9										6.3	2.9
	E	2.3	.7										3.0	2.8
	ESE	1.2	•2										1.4	2.0
	SE	.3											• 3	2.7
	SSE	.8	•2										1.0	2.7
	5	3.5	3.6	2.4	•1				•				9.7	4.6
	SSW	2.6	4.8	4.2	•7								12.2	6.0
	sw	1.4	1.9	2.1	1.0								6.4	6.8
	WSW	1.4	1.5	1.5	•6	.1	• 1						5.2	7.0
	W	.3	1.4	. 8	•5	. 2							3.3	7.8
	WNW	.6	.9	1.2	• 3								3.0	6.6
	NW	<u> </u>	.2	.2	•1	•1							.71	10.5
	NHW	-1	.3	.2	•2								•9	7.3
	YARN	2.9											2.9	1.8
	CALM	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$		10.1	
	L	35.2	30.3	18.7	5.0	, 5	• 1						100.0	4.6

USAFETAC TOMA 0-8-5 (QL A) PREVIOUS EDITIONS OF THIS FORM AIC OR OLETE

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

RHELL	N-MAIN	API GE	RMANY/	ERANKE	URT	67=	76	 ,	TEA RS			M	A Y
					ALL WE	ATHER						0300	-0500
	-				con	KOL LIC				_			
SPEED (KNS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	×	MEAN WIND STEED
N	1.3	1.0	.5									2.7	3.8
NNE	2.1	4.2	2.2	1.4								9.9	6.2
NE	8.2	9.9	2.2	2					i			20.6	4.2
ENE	6.1	1.5	. 2	•1		1						7.0	3.0
E ,	2.6	3	.2									3.2	2.9
ESE	1.0											1.0	1.9
SE	8											. 8	1.6
SSE	1.1	?.										1.4	7,5
\$	3.3	_4.3.	2.1	.1						1		10.0	4.7
SSW	1.8	4.7	3.3	. 8								10.7	6,0
SW	1.9	1.6	3.6	1.0								8.1	6.5
wsw_		1.4	1.0	6			<u> </u>		<u> </u>			3.4	7.2
<u>\</u>		1.4	1.6	5		<u> </u>						4.2	6.3
WWW	2	5	7	3		L						1.7	7.7
NW			9	5					<u> </u>	<u> </u>		2.3	8.2
NNW		. 7	1	2		ļ	Ĺ		<u> </u>	<u> </u>		1.1.	6.5
VAROL	راعقت	رق				Ĺ	Ļ			Ļ		3.3	1.8
CALM	$\geq \leq$	><	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	7.6	
	34.9	33.1	18.6	5 . B		1		1				100.0	4.6

USAFETAC BLAZ 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE UBSOLETE

0

SURFACE WINDS

PERCENTAGE FREQUENC! OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

35032 STATION	RHEI	N-MAIN	APT GE	RMANY/	FRANKE	URT	67-	-76		**************************************			M	AY
•,			514110							2410				
						ALL WE	ATHER						0600	-0800
						•							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(6.5 1.7
		-				COM	NOITION	·						
		-												
	SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	*	MEAN WIND SPEED
	N	1 5			• 5					 			3.3	5.6
		1.5		.7						 				
	NNE	1,8	1.7	4.7	1.0	.2			ļ	 	 -		9.4	7.2
	NE	2.7	6.5	4.5	• 8	, 2				<u> </u>	ļ		14.8	6.0
	ENE	2.7	5.1	1.2							ļ		9.1	4.6
	E	3.3	1.2	1.4									5.9	3.8
	ESE	•2	.6	1									• 9	4.5
	SE	.2	.1	l					<u></u>	<u> </u>	<u> </u>	LI	• 3	2.3
	SSE	.9	.3						l		<u> </u>		1.2	2.4
	S	1.5	1.8	1.9	•2								5.5	5.6
	SSW	1.9	3.9	5.8	•9					T			12.5	6.7
	SW	1.9	4.2	4.0	2.5	,1			i T				12.7	7.3
	WSW	1.4	2.2		1.1	.2					T		6.5	7.1
	w	.5	1.4	2.0	.9	•1					·		5.0	8.3
	WNW	.2	.8	1.9	•3						 		3.3	7.4
	NW	-	.7	.5	.3					 			1.5	8.5
	NNW	.2	1 1	•2	• 3				1				.9	7.9
	VARBL	3.C		<u></u>	 -					 	 		3.4	2.0
	CALM												3.7	
								\leftarrow		\leftarrow	\leftarrow			
	L _	24.0	31.7	30.6	9.0	.9	1		1	l	l	11	100.0	5.9

YOTAL NUMBER OF OBSERVATIONS

880

USAFETAC FORM 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLET

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

(LA Y.)	0900		•				ÁR	ALL NE					
							DITION	CONI					
MEAN	l i		<u> </u>									-	SPEED
WIND	*	≥56	48 - 55	41 - 47	34 - 40	25 - 33	22 - 27	17 - 21	11 - 16	7 - 10	4 - 6	1.3	(KNTS) DIR.
5.	3,3								.2	•9	1.3	. 9	И
	8.9							1	1.6	3.9	2.0	1.3	NNE
8_	7.2		i						1.0	3.3	2.0	5	NE
6.	4.5								.2	1.7	2.0	6	ENE
6.	7.0								6	2.5	3.1	8	E
6,	2.8								2	1.0	1.0	5	ESE
	.9									- 2	7		SE
4.	1.5									2		5	SSE
5,	4.6								3	1.6	- 106	1.3	5
7,	9.9								2.6	3.1	2.9	1.3	SSW
8,	12.2							5	3.6	3.6	3.2	1.2	SW
9.	11.5							1.2	2.9	3.3	3.3	7	WSW
8	9.7	i						2	2.8	3.0	3.1		_w
9,	4.0								1.5	2.1	2	<u>.</u> 2	WNW
8,	2.5									_1.7			NW
7,	2.1								2	1.2	6		NNW
2,	6.3	-		< -				- 			وملي	4.7	VARBL
	1.0	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	CALM
7.	100.0						1	2.4	18.3	33.7	29.5	15.0	

LIGATETAC FORM 0-6-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

SURFACE WINDS

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

35032 STATION	RHEI	N-MAIN	APT GE	RMANY/	FRANKE	Up T	67-	70						IAY
STATION			STATION	KANE					,	TEARS				
						ALL WE	ATHER						1200	-1400
						CI	AM						HOURE	(La).†)
		_												
						CON	DITION							
		_												
														
	SPEED (KNTS)	1.3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≳.56	*	MEAN
	DiR.		""	, - ,	,,,,,	2.	22 - 27	20 - 00	•••	31 - 37	10.35	~~~	"	SPEED
	N	•2	2.4	1.9	• 2								5.0	6.8
	NNE	.5	1.6	2.7	1.4		41		 				6.3	8.4
	NE	• 3	1.0	2.2	1.2	,3							5.1	8.8
	ENE	•2	1.7	1.2	• 5								3.6	7.1
	E	.5	2.3	2.6	.7		Γ		<u> </u>	†			6.0	6.9
	ESE	•6	.7	1.5	•8								3.6	7.6
	SE	•1	.6	• 7									1.4	6.8
	SSE	,3	,3	•1						i			. 8	4.9
	\$.9	2.0	2.1	.9								5.9	6.8
	SSW	. 8	2.1	4.2	2.4	•2							9.8	8.5
	SW	.5	2.1	4.8	3.3	1.2	• 1						11.8	10.2
	West	• 6	1.6	3.1	2.1	1.2	.2						8.8	10.4
	W	. 6	.3.9	2.8	3.1	• 9							11.4	9.2
	WNW	.2	1.2	1.4	1.4	• 2							4.4	9.4
	NW	.2	.7	2.3	1.2								4.4	8.9
	NNW	•2	1.0	1.5	.7					1			3.5	8.2
	VARBL	3.9	3.8										7.8	3.4
	CALM	$\geq \leq$	><	><	><	><	$\geq \leq$	><		$\geq \leq$	><		•3	
		10.8	29.3	35.0	20.1	4.1							100.0	8.2

USAFETAC CORM 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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35032 RHEIN-MAIN APT GERMANY/FRANKFURT

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

			-				DITION	CON					
MEAN WIND SPEED	*	≥56	48 - 55	41 - 47	34 - 40	28 - 33	22 - 27	17 - 21	11 - 16	7 - 10	4 - 6	1 - 3	SPEED (KNTS) DIR.
6.	4.4								3	1.4	1.7	.9	N
7.	5.4							2	. 7	2.5	1.4	.6	NNE
8.4	8.2								1.3	3.1	1.5	. 2	NE
7,4	4.8								.5	2.6	1.5	.2	ENE
6.	4.6								•1	2.0	1.7	8	E
6.	4.5	1							•2	1.4	2.5	. 3	ESE
5.5	2.0									• 7	.9	.3	SE
4.	2.3									.5	.5	1.4	SSF
5 • 9	6.2							1	. 5	1.8	2.3	1.5	5
7.	8.1								1.2	3.2	3.0	7 1	ssw
10.	8.5						لتعب	.7	2.8	4.0	8	4	sw
10.	9.9							1.5	2.5	3.0	2.1	. 7	WSW
9.	9.8	i						2	3.3	3.3	2.5	3	w
8.	5,9								1.3	2.8	1.7		WWW
8 .	5.4								الامل	3.2			NW
7.	4.6								8	2.0	1.6	2	NNW
2.	6,7							, k			للعقب	4.6	YARBL
	.8	$\geq \leq$	$\geq \leq$	$\gg \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	CALM
7.	100.0						. 2	2.9	16.5	37.5	28.9	13.2	

USAFETAC PORM 0-8-5 (OL A) previous epitions of this form are casolete

SURFACE WINDS

TOTAL NUMBER OF OBSERVATIONS

878

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

35032 STATION	RHEI	NIAM-N	APT GE	RMANY	FRANKE	URT	67-	-76		75495				IAY
STATION			PIATE	THAPE						TEARS				
		_				ALL WE	ATHER							2000
						•								, , ,
		_				CON	DITION							-
	SPEED (KNTS) DIR.	1 - 3	A - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
	N	2.1	1.6	1.8									5.5	5.0
	NNE	2.1	3.0	2.4	.9					1			8.3	6.1
	NE	3.0	2.1	1.6	1.4								8.0	5.9
	ENE	2.4	3.0	1.6	•3								7.3	5.0
	E	5.8	3.0	.7									9.5	3,4
	ESE	2.5	1.6	•2									4.3	3.4
	SE	1.5	.1	• 2									1.8	3.1
	SSE	2.8	.3				_						3.2	2.3
	\$	2.7	2.6	•6	• 1								6.0	4.3
	SSW	.9	3.1	1.7	• 5	•2							6.4	6.4
	SW	.6	1.0	3.3	1.8	.5							7.5	9.0
	WSV	1.4	2.3	2.5	1.4	.5			T				8.0	7.9
	W	• 3	1.7	1.8	1.4	2	- 1						5.6	8,8
	WNW		1.5	2.2	•7								4.3	7.6
	NW_	. 5	2.2		• 8								5.7	7.0
	WHH	•6	2.1	1.8	•5								4.9	7.0
	VARBL	.8	.1										.9	1,9
	CALM	\boxtimes	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	\boxtimes	$\geq \leq$	2.8	
		29.8	31.4	24.7		1.4	. 1						100.0	5.8

USAFETAC FORM 0-8-5 (QL A) PREVIOUS EDITIONS OF THIS FORM ARE OSSOLETE

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

RHEIN-MAIN API GERMANY/FRANKFURT 67-76

	_				ALL WE	ATHER						2100 Hove) - 2
					CON	PITION							
SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 • 21	22 · 27	28 - 33	34 - 40	41 - 47	4 8 - 55	≥56	*	M W
N	1.1	1.2	. 7	. 2								3.3	
NNE	2.4	3.7	4.1	. 9								11.1	
NE	6.3	7.1	12	.7								15.4	
ENE	3.9	3.3	.5									7.6	
8	3,1	2.0										5.1	
ESE	1.5	• 7										2.2	
SE	. 9	-1										1.0	
SSE	1.2	. 2										1.5	
S	3.5	3.1	1.2		1							7.9	
SSW	2.7	3.4	2.9	5								9.5	
sw	1.1	1.4	2.5	1.7	• 1	.1	.1					7.0	
W5W	1.2	1.7	1.8	. 6	1							5.4	
w	. 8	7	1.4	.6								3.4	
WNW	-1	1.8	104	. 2								3.5	
NW	.9	1.2	. 9	. 5						ll		3.5	
NNW	.6	. 8	5	• 2								2.0	
VARBL	2.9	1										3.1	
CALM	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	7.4	
	34.4	32.7	19.0	6.0	.3	. 1						100.0	

USAFETAC FORM 0-8-5 (QL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

SURFACE WINDS

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

RHEIN-MAIN API GERMANY/FRANKFURT

					ALL WE	ATHER						OOOO	(L.S.T.)
	_				CON	DITION							
SPEED (KNTS) DIR.	1 - 3	4 · 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1.1	2.1		2								3.9	5.
NNE	4.8	6.4	3.8	1.4			L					16.5	5,
NE	7.1	8.2	1.3	. 2								16.8	4.
ENE	3.8	1.7						Ĺ		<u></u>		5.4	3.
E	1.9											1.9	1.
ESE	6							L				-66	2,
SE	1.3	1					<u> </u>	<u> </u>			<u> </u>	1.4	_ 1.
SSE	.9	2								<u> </u>	<u> </u>	1.2	2,
S	4.6	3.0	- 9				<u> </u>	<u> </u>			<u> </u>	9.5	3.
SSW	2.7	3.7	2.8	. 2								9.6	
SW	1.8	1.9	2.1	- 8			L	<u> </u>			<u> </u>	6.6	_ 6.
WSW	.9	1.4	1.2	- 6					ļ <u> </u>		ļ	4.1	6.
	5		1.3	7	1		ļ		ļ		<u> </u>	3.5	7.
WNW	2	. 8					<u> </u>					1.9	6.
NW		عم	1.4	2				ļ	ļ	<u> </u>	 	2.7	7.
NNW	-6	9	5	. 4						<u> </u>	<u> </u>	2.4	6.
YARBL	2.1.9	لرسي							<u></u>	_		1.9	
CALM	$\geq \leq$	$\geq \leq$	$\geq \leq$	> <	\gg	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	11.0	
	34.9			5.0	4							100.0	4.

USAFETAC FORM 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

	_			<u> </u>	ALL W	THER.						0300 HOURS)-0
	_				COM	IBITION				 -			
SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MI W
N	1.3	.6	.7	•6						 		3.2	
NNE	1.7	4.8	2.6	1.8								10.8	
NE	9,2	6.2	3.0	•1								18.5	
ENE	7.0	2.3										9.3	
E //	4.8	•2						1				5.0	
ESE	.7	•1										• 8	
SE	,7	.1										•8	
SSE	1.1											1.1	
5	3.2	1.7	. 8									5.7	
SSW	2.9	3.9	3.4	1.0								11.2	
SW	3.0	3.3	2.7	•4								9.4	
WSW	1.0	1.4	.6	• 2								3.2	
w	.5	1.0	9	•6		L		<u></u>				2.9	
WNW		1.1	.4	. 4					<u> </u>			2.0	
NW	. 2	.7	1.0	• 5								2.4	
NNW	.2	1.1	.4									1.7	
VARBL	2.5											2.5	
CALM	$\geq \leq$	$\geq \leq$	$\geq \leq$	\times	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	9.6	
i	40.1	28.4	16.4	5.5								100.0	

USAFETAC FORM 0 8-5 (QL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

SURFACE WINDS

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

RHEIN-MAIN APT GERMANY/FRAHKFURT 67-76

	_				ALL WE	ATHEX	<u></u> -					0000 MUCH) <u>- (</u>
	_				con	BITION							
SPEED (KNTS) DIR,	1 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	
							<u></u>		ļ				_`
N	- 8	7	1.5	. 4						ļ		3.4	_
NNE	1.2	2.7	4.6	3.9	2	<u> </u>		<u> </u>	<u> </u>	<u> </u>		12.5	_
NE	2.6	7.8	5.4	- 5					<u> </u>	ļ		16.3	_
ENE	2.1	4.6	2.2			L				<u> </u>		8,9	_
E	2.3	1.6	. 2				<u> </u>		<u> </u>	<u> </u>		4.2	L
ESE	. 8	• 2						<u>L</u>		<u> </u>	L	1.2	_
SE	5											.5	
SSE	6											6	
\$.7	1.1	. 7	• 5					<u> </u>	<u> </u>	<u> </u>	2.9	L
SSW	1.8	3.4	5.4	• 9						<u> </u>		11.5	
SW	2.0	3.3	4.8	1.1	1							11.2	
WSW	2.1	2.0	1.3	1.1	.2							6.7	L
w	.4	1.3	2.0	.8	.2							4.7	L
WNW	1	1.4	1.9	•6								_4.0	
NW	.2	.6	7	7								2.2	
NNW		.4	.5									.8	
VARBL	3.3	.4								1		3.6	
CALM	$\geq \leq$	\geq	\geq	\times	$\geq \leq$	\geq	\geq	$\geq \leq$	$\geq \leq$	\geq	$\geq \leq$	4.8	
		I										100	Г

IISATETAC FORM C.R.S. (OR A) measurable equipage on this scent and chargeste

RHEIN-MAIN APT GERMANY/FRANKFURT

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SURFACE WINDS

TOTAL NUMBER OF OBSERVATIONS

850

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

	_				CON	PITION						
SPEED	_	-								-		
(KNTS) DIR.	1-3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	24 - 40	41 - 47	48 - 55	≥56	*
И	• 5	. 9	1.4	•5								3
NNE	. 9	2.8	4.6	4.8								13
NE	,9	2	4.0	1.2								8.
ENE	.4	1.9	2.7	•7			<u> </u>					5 (
E	•7	1.3	1.3	• 1								3,
ESE	-6	. 9	.2					<u> </u>				1 .
SE		.6	•1				L					
SSE	.8	•6	•1									1
\$	1.4	1.4	1.3	• 5				ļ				4.
SSW	1.5	3.3	3.6	2.2	.1							10
SW	•2	2.8	4.0	2.2	.4			<u> </u>		ļ		9.
M2M.	•6	2.4	3.2	2.8	.6		<u></u>	<u> </u>				9.
w	.9	1.6	3.8	1.3	•:		L	<u> </u>		Ll		7.
WNW		1.2	1.6	.7								3
ЖW	•6	.5	1.5	•8								3.
NNW	.4	.7	. 8	• 5								2
VARBL	6.5	2.9										9
CALM	$\geq \leq$	$>\!\!<$	><	$>\!\!<$	><	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$		$\geq \leq$	1
	16.9	28.1	34,4	18.4	1.2			1				100

USAFETAC FORM 0-8-5 (QL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

	_				ALL W	ATHER						1200 Rover	-1401 (L87.)
	_				CON	SITION							
SPEED (KNTS) DIR.	1.3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	4R 55	≥56	*	MEAN WIND SPEED
N	- 4	2.2	1.9		2							4.8	7.
NNE	8	2.5	5.1	2.8	2							11.5	8.
NE	1	1.4	3.3	1.7	1		i					6.6	8.
ENE	. 2	1.7	2.5	1.1								5.6	8.
E	7	2.8	2.1	.4								5.9	6.
ESE	4	1.0	• 5	• 2								2.1	60
3E	. 2	.4	.4									1.0	5.4
SSE	. 2	.7	. 5									1.4	5.
S	. 4	1.2	1.9	- 4								3.9	7.
SSW	4	2.4	2.3	2.1					i			7.1	8.
sw	,2	1.2	4.5	4.0	.6						-	10.6	11.
WSW	5	Žel	2.4	3.5	1.7							10.1	10.
w	2	3.3	4.0	2.9	. 4							10.7	9,
WNW	.2	.7	1.6	. 8								3.4	8.4
NW	1	.7	2.7	1.1								4.6	8.
HWW		1.0	1.7	.4			L					3.1	11.6
VARSL	3.7	3.4								L		7.:	3,:
CALM	><	> <	><	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	\geq	.4	
	8.9	28.6	37.2	21.6	3.3							100.0	8.4
			- 3104			l			TOTAL NU	MBER OF OBS	FRVATIONS		

USAFETAC FORM (1-8 - (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

SURFACE WINDS

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

	_				ALL W	TATHER MM						1500)-
	-				CON	PITION		<u> </u>		_			
SPEED (KNTS) DIR.	1 - 3	4.4	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	ىد . 48	≥56	•	-
N	.7	3.2	2.6	•7				 	}	}		7.3	-
NNE	.6			2.9	.1		·	 	 	 	i	10.3	Г
NE	.6			1.5	.1				 -	 		7.6	<u> </u>
SIFE	1.1	1.4	2.4	•5			l		 			5.4	<u> </u>
Ε	1.3		1.4	•4								4.9	Γ
ESE	.6		•1	•1					 			1.8	ſ-
SE	.1	.7									i	1.1	Γ
SSE	.5		•1							·		1.1	
S	1.1	2.1	1.2									4.4	L
ssw	.2		3.1	• 8								5.4	
SW	•5			2.6	• 5							8.7	
WSW	.4	2,6	2.7	3.8	1.0	• 1						10.6	Ĺ
w_	.7	2.7	4.2	2.5	.8	•1						11.1	ĺ_
WNW	.2	1.4	2.7	.7.	.1						i	5.2	L
NM	.2			1.8			L			L		5.4	_
NNW	.7		1.5	• 5								5.0	L
VARSL	2.7	1.5							L			4.3	L
CALM	$\geq \leq$	$\geq \leq$			><	$\geq \leq$	$\geq \leq$	$\geq \leq$	><	$\geq <$	><	•7	L
				40.0			~					100.0	_

LICASETAC FORM O.S.S. OR AL DESCRIPTION OF THE SOUR AND CREATER

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SURFACE WINDS

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

RHE	IN-MAIN	APT GE	RMANY/	FRANKE	URT	67.	76		TEARS				UN
					ALL W	ATHER						1800 movae	-20 (L\$.T.
					COH	BITION							
SPEED (KNTS) DIR.	1 - 3	4-6	7 - :0	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEA WIN SPEE
N	2.8	3.7	2.7	•7								9.9	5
NNE	1.2	_ 2.7	2.6	2.1				<u> </u>				8.5	7
NE	1.3	2.9	3.6	1.4								9.2	7
ENE	2.6	3.9	1.0	• 1								7.7	4
_ E	4.1	1.9	. 3									6.3	3
ESE	1.7	1.0	•1									2.9	_3
SE	. 8	•6	.1									1.5	3
SSE	1.3	1.2	.1									2.6	3
S	2.7	2.7	1.4									6.7	4
SSW	1.6	2.3	1.7	5								6.1	5
sw	.9	1.6	3.7	. 9	.3			<u> </u>				7.5	7
WSW	8	2.2	2.9	1.2			<u></u>					7.2	7
w	-7	2.2	2.4	2.2	.3	<u> </u>			<u></u>			7.9	8
MWM	_	1.0	1.0	3			! _			L		2.6	7
` <u>N</u>		2.0	2.3	9		ļ	 _		<u> </u>		L#	5.5	7
NNW	1.0	1.6	1.6	6		!				ļ		4.9	6
VARBL	1.0	2					l 	Ļ	Ļ			1.3	2
CALM	$\geq \leq$	$\geq \leq$	$>\!\!<$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	> <	2.0	
	24.8	32.8	27.7	10.9	, G							100.0	6

USAFETAC FORM 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

35032 STATION	RHEIN-MAIN APT GERMANY/FRANKFURT	67-76	ŭ ii	JUN
	ALL	VEATHER CUM		2100-2300 HOURS (LS T.)
		ONFIGH		
				

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	4 8 · 55	≥56	*	MEAN WIND SPEED
н	2.3	2.9	1.5									6.7	4.
NNE	3.3	6.0	3.1	1.9	.1							14.4	6.
NE	4.6	5.4	1.8	.4								12.1	4.
ENE	3.7	1.9	• 2									5.8	3
E	3.0	.7	• 1									3.8	2
ESE	1.9	_ 1.1										3.0	2
SE	,7	.5										1.2	3
SSE	.8	• 1										1.0	2
3	3.5	4.0	1.0	•1								8.6	4
SSW	1.8	2.6	2.6	•5					i			7.5	6
SW	1.4	1.3	2.3	• 4								5,4	6
WSW	1.2	1.7	1.2	• 8	•1							5.0	6
w	.5	2.6	.7	• 5								4.3	6
WNW		. 8	1.0	•2								2.0	7
NW	.6	1.2	1.3	•2								3.3	6
HHW	.8	1.5	1.1									3.5	5
VARBL	2.6	.4										3.0	2
CALM	><	$>\!\!<$	\times	> <	><	$>\!\!<$	$\supset <$	$\supset <$	$\triangleright <$	$\supset <$	><	9.5	
	32.7	34.6	17.9	5.0	.2							100.0	4

TOTAL NUMBER OF OBSERVATIONS 84

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SURFACE WINDS

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

35032 STATION	RHEI	N-MAIN	APT GE	RMANY	FRANKE	URT	67	-76		, EARS				UL
		-	· · · · · ·			ALL W	EATHER UM						0000	-0200
		-				COI	DITION							
	SPEED (KNTS) DIR.	1.3	4-6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
	N	1.5	.6				——·				 		2.1	2.7
	NNE	3.3	3.9	1.9	• 5		<u> </u>			 		i	9.5	5.1
	NE	8.5	6.9	1,5	•1						1		17.1	3.9
	ENE	4.9	2.0	•1							1		7.0	3.1
	E	2.2	•2										2.5	2.0
	ESE	. 8											•8	1.7
	SE	.9	•2										1.2	2.4
	SSE	1.6	• 1										1.8	2.1
	5	4.0	2.9	.7			<u> </u>						7.6	3.7
	SSW	4.2	4.7	2.5	1.2								12.5	5.3
	sw	1.5		1.4	•6								6.7	5.6
	WSW	1.8	1.6	1.1	7		<u> </u>						5.1	5.5
		.6	1.4	.9	.6				<u> </u>	<u> </u>	<u> </u>		3.5	6.4
	WNW	. 2	.9	1.3	•4								2.9	7.7
	NW	.5	1.2	1.1	•1		<u> </u>		<u> </u>	ļ			2.8	6.3
	NNW	.6	.5	.7		ļ	<u> </u>	<u> </u>					1.8	5.0
	VARBL	2.1				Ļ	Ļ			Ļ	Ļ		2.2	1.9
	CALM	\leq	$\geq \leq$	><	><	$\geq <$	$>\!\!<$	><	><	><	><	><	13.0	
		39.3	30.4	13.1	4.1	1							100.0	3.9

USAFETAC FORM 0-6-5 (OL. A) PREVIOUS SOUTHORS OF THIS FORM ARE ORSCIETE

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SURFACE WINDS

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION	<u> Kuel</u>	N-MAIN_	STATION	NAME .	FRANKI	UK I		-10		EA 85				IONTA
		_	-			ALL M	E THER						0300)=0500 (C4.7.)
		_				COI	IDITION							
ļ	SPEED (KNTS)	1.3	4.4	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND
į	DIR.	'			11 - 10	17 - 21	22.21	26 . 33	34 - 40	41 - 4/	46 - 33	536	"	SPEED
ļ	N	.6	.6	-1			l	<u> </u>	<u> </u>			<u> </u>	1.3	3,5
	NNE	2.2	1.9	1.3	. 7						L	l	6.0	5.4
	NE	8.0	7.0	1.3	. 7							i	17.0	4.1
1	ENE	7.4	1.9	1									9.4	2.8
	E	2.9	3										3.3	2.2
	ESE	1.0											1.0	1.6
ĺ	SE.	• 2											•2	2,5
	SSE	1.9											1.9	1.5
	\$	6.2	3.6	1.3									11.0	3.6
Į.	SSW	4.8	3.7	4.8	1.0								14.3	5,5
į	SW	2.4	2.2	2.4	1.6								8.7	6,4
į	WSW	1.0	1.7	1.2	1								4.1	
	w	6	1.17	1.3					[3.7	5,9
	WNW	-6	. 5	1.0	. 5								2.6	6.9
	NW	.3	.6	. 8	.2			L					2.0	6.5
	NNW	47	. á	7	1								2.1	5.3
	JERAY	2.0											2.0	1.4
	CALM	$\geq \leq$	X	$\geq \!$	$\geq \leq$	\times	$\geq \leq$	$\geq \leq$	\geq	$\geq \leq$	$\geq \leq$	$\geq \leq$	9,5	
		42.9			5.1								100-0	4.1

USAFETAC FOR D-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

SURFACE WINDS

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

	_				ALL WE	ATHER		· · · · ·				060
					сон	SITION						
SPEED (KNTS) DIR,	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*
N	.6	.5	6									1.6
NNE	1.3	1.7	2.6	•6								6.2
NE	2.9	6.4	3.9	. 7								13.9
ENE	2.8	6.2	1.4	•1								10.
£	3.1	1.7	•7									5.
ESE	.6		• 1									•
SE	.5	1										• (
SSE	•6	•1										•
5	1.8	1.7	•7	• 5								4.
55W	2.4	5,4	4.7	1.3					<u> </u>			13.1
SW	2.0	.2.6	4.7	3.1.	•1							12.
wsw	2.0	2.6	1.8	• 7				<u> </u>				7.
W	1.0	1.7	1.0	.3								4.
WNW	.3	1.8	1.3	. 2								3.
NW	.7	.9	1.5	• 8								3.0
NNW	-2	5	. 8		1					ļ		1.
VARSL	3.1				L	<u></u>	Ļ.,			ļ		3.
CAUA	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$		$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	5.
	25.8	34.3	25.9	8.3	.1							100.0

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DATA PROCESSING BRANCH ETAC/USAF SURFACE WINDS PERCENTAGE FREQUENCY OF WIND AIR WEATHER SERVICE/MAC DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS) 1 RHEIN-MAIK APT GERMANY/FRANKFURT ALL WEATHER C C SPEED (KNTS) DIR. ≥56 7 - 10 17 - 21 22 - 27 41 - 47 48 - 55 N 1.5 5.5 NNE 2.9 6.7 NE 6.5 ENE 1.4 5.0 5.3 1.0 5.2 ESE 5,4 1.0 SE 5.9 SSE \$ 4.1 2.5 2.0 SSW 4.1 2.3 . 8 O WSW 8.8 10.4 WNW ŹáÒ 6.7 O NW 8.2 4.4 NNW Bel VARBL فعا C CALM

USAFETAC FORM 0-8-5 (QL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

TOTAL NUMBER OF OBSERVATIONS

863

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SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

35032 STATION	RHEIN-MAIN APT GERMANY/FRANKFURT	67-76 YEARS	JUL
		ATHER	1200-1400 HOURS (L & T.)
	COM	PITION	

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	•5	2.2	1.3	•1								4.1	6.
NNE	.4	2.7	2.9	_ •1								6.0	6.
NE	•2	1.8	1.4	•7								4.2	7.
ENE	•6	1.0	1.1	•1								2.8	6.
E	•2	1.8	1.9									4.0	6.
ESE	•5	1.0	.7									2.2	5.
SE	•1	1.2	•2				l			1		1.6	5.
SSE		.4	.7									1.1	6.
\$	•1	2.1	1.6	•6								4.3	7,
SSW	•2	1.7	3.4	1.8	•1	•1				I		7.4	9.
SW	•5	1.9	4.6	3.3	1.0	• 1			i			11.3	10
WSW	•4	1.7		4.5	1.4	•1						11.9	10
w	1.3	3.3	4.8	2.9	,5			T				12.8	8
WNW	.4	2.2	3.1	1.6								7.2	8
NW	•1	1.4	2.1	1.4								5.1	8
NNW	•2	2.3	1.7	•6			1					4.8	7
VARBL	4.6	4.5	1							 		9.2	3
CAUN	$\supset \subset$	> <	>	> <	\times	\times	\supset	$\supset <$	$\supset \subset$	$\supset <$	>		
	10.4	32.9	35.6	17.7	3.0	. 4			•			100.0	7

TOTAL NUMBER OF OBSERVATIONS 829

USAFETAC TOTAL 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM AND OBSOLET

DATA PROCESSING BRANCH ETAC/USAF SURFACE WINDS AIR WEATHER SERVICE/MAC PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS) RHEIN-MAIN APT GERMANY/ERANKFURT 67-76 MEAN WIND SPEED 2.1 1.6 6.3 NE ENE ESE .6 SE 5.8 SSE \$ 1.8 SSW 1.3 2.0 3.5 SW 3.0 WSW 4.4 w 3.4 WNW 8.5 NW 8.2 HNW 8.1 6.2 5.8 • 5 TOTAL NUMBER OF OBSERVATIONS

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SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

35032 STATION	RHEI	N-MAIN	APT GE	RMANY/	FRANKF	URT	67-	-76	 ,	TEARS				UL
		_			 	ALL WE	ATHER						1800	-2000
		_				CON	DITION				 -			
	SPEED (KNTS) DIR.	1.3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
1	N	1.0	2.3	1.2	•2						1		4.8	5.4
ſ	NNE	1.3	3.5	2.9	.3					·			8.0	6.1
I	NE	1.9	2.1	1.5	• 2						Ī		5.7	5.2
ſ	ENE	3.6	2.3	•5									6.4	3.6
Ī	E	3.7	2.3	•1									6.2	3.4
ĺ	ESE	2.1	.9										3.0	2.8
	SE	1.4	. 5										1.9	2.7
	SSE	1.2	.3										1.5	2.9
	\$	3.3	3.5	1.4						L			8.2	4.4
	SSW	1.2	2.6	2.1	•2								6.1	5.8
į	SW	.3	2.6	3.1	2.0								8.0	8.1
į	WSW	.8	2.0	2.0	1.4								6.2	7.8
	· W	.9	2.6	2.9	2.2	.9	• 2	• 1					9.9	9.5
į	WNW		.9	2.9	• 8						<u> </u>		4.8	8.1
j	NW	.6	3.0	3.0	•6								7.2	6.8
	NNW	1,9	3.0	2.7	.3					<u> </u>			7.9	5.9
	YARSL	.9	.7				<u> </u>	ļ					1.6	3.1
	CALM	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	2.6	
		26.2	35.2	26.3	8.4	. 9	.2						100.0	5,8

TOTAL NUMBER OF OBSERVATIONS 858

USAFETAC FORM 0-8-5 (QL A) PREVIOUS ELITIONS OF THIS FORM AND OBSOLETE

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SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

	-				ALL W	ATHER						.2100	-23
	_				CON	B1710 ⁶¹		·					
SPEED	_									_			ME
(KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	SPE
N	1.5	2.4	.7									4.6	- (
NNE	3.6	3.8	2.2	1.2								10.8	
NE	5.1	5.2	9	2								11.4	
ENE	3.2	1.8	1									5.1	
E	2.8	. 8										3.6	
ESE	1.1	•2										1.3	
SE	7	.5										1.2	
SSE	. 7	• 7										1.4	
\$	4.7	3.3	. 9	. 1								9.0	
SSW	2.9	3.4	1.5	1.1								8.9	
SW	1.8	2.6	2.0	•7								7.1	(
wsw	_ 8	2.1	1.4	•4								4.7	
w	. 4	1.8	1.6	•8	.4	•1						5.1	
WNW	•2	.9	1.5	4	•1				<u> </u>		<u> </u>	3.2	
NW	. 4	1.2	2.4	•2								4.1	
WWW	1.9	2.1	1.2	•1								5.3	
VARBL	3.3	.5								 		3.8	
CALM	><	><	\times	\times	> <	\supset	$\supset <$	X	$\supset <$	> <	> <	9.5	
	35.0	33.1	16.6	5.2	.5	1		•				100.0	,
		•							TOTAL NU	MBER OF ORS	ERVATIONS		

DATA PROCESSING BRANCH ETAC/USAF AIR WEATHER SERVICE/MAC SURFACE WINDS PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS) RHEIN-MAIN APT GERMANY/FRANKFURI 67-76 SPEED (KNTS) DIR. MEAN WIND SPEED 1.3 7 - 10 11 - 16 22 - 27 28 - 33 41 - 47 48 - 55 ≥56 3.7 N HNE 5.7 2.8 12.8 5.0 3.9 10.8 23.1 4.0 10.1 ENE E 2.9 C EŞE SE SS€ O \$ 2.8 4.2 5.0 11.3 SSW 3.3 3.1 wsw 1.0 WHW NW

TOTAL NUMBER OF OBSERVATIONS

861

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USAFETAC FORM 0-8-5 (GL. A) PREVIOUS METIONS OF THIS FORM ARE DESOLET

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SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

35032 STATION	RHEIN-MAIN APT GERMANY/FRANKFURT	67-76	AUG
SIN I NOW	SIATION MADE	100	204/1
	ALL WE	FATHER	0300-0500
		LASS	HOURS (L S.T.)
		•	
	CON	917.00	

SPEED (KNTS) DIR.	1-3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥54	*	MEAN WIND SPEED
N	.8	.5	• 1				1					1.4	3.5
NNE	3.0	3.5	2.5	•1					i ——			9.1	4.9
NE	11.3	8.4	1.5	•1		1						21.3	3.7
ENE	8.4	2.4				1			1			10.8	2.6
E	3.7	.6						<u> </u>		1		4.2	2.1
ESE	1.8	.1										1.9	1.7
SE	1.0	.2										1.3	2.0
SSE	1.6	.3										1.9	2.4
5	3.7	2.4	•9						<u> </u>			7.0	3.9
SSW	3.0	5.0	4.7	•1								12.8	5.6
SW	.9	2.2	2.4	•7								6.2	6.4
WSW	1.0	. 8	.8									2.6	4.4
w	•5	.6	•6	•1								1.7	5.3
WWW	•2	.8.	.8	-			i					1.8	6.1
NW	.5	.5	1.5									2.4	6.5
NNW	.3	.2	•1					1				.7	3.8
YAROL	3.0	•2						 	 			3.2	1.6
CAUA		X	\times	\times	> <	> <	> <		> <	\supset	>>	9.6	
	44.6	28.8	15.9	1.1								100.0	3.7

TOTAL NUMBER OF OBSERVATIONS 876

USAFETAC FORM 0-8-5 (QL. A) previous semant or this room ant assouts

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

					. Tuen						0400	_000
				ALL N	ATHER.			. — —			- VDVV	(LST.)
				COM	erraen							
-												
		··········					, <u>.</u>					
1-3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
1.4	_ 45	1									1.9	2.
2.2	2.8	3.6	.3								9.0	5.
4.0	10-4	6.2	•1								20.5	5.
5.1	4.9	1.9									12.0	4.5
3.6											6.4	3.
1.4	.3.										1.7	2.3
.8											. 8	2.1
.8	.1										.9	1.9
1.4	1.4	1.4	•1								4.2	5.1
2.1	5.0	5.0	.8								12.9	6.2
2.2	3.1	5.9	1.6								12.8	6.9
9	. 9	1.3	. 5	1							3.6	6.6
. 5		.5	.6								2.3	7.1
1 1	. 5	1.0	.1								1.7	7.5
	.6	.3	.2					L			1.9	4.6
3	1	1	1								.7	5,5
1.6	.1					L			L		1.7	1.9
											4.9	
	1.4 2.2 4.0 5.1 3.6 1.4 .8 .8 1.4 2.1 2.2 .9	1,4 ,5 2,2 2,8 4,0 10,4 5,1 4,9 3,6 2,4 1,4 ,3 ,8 1,4 1,4 2,1 5,0 2,2 3,1 ,9 ,9	1.4 .5 .1 2.2 2.8 3.6 4.0 10.4 6.2 5.1 4.9 1.9 3.6 2.4 .3 1.4 .3 .8 .8 .1 1.4 1.4 1.4 2.1 5.0 5.0 2.2 3.1 5.9 .9 .9 .9 .9 .5 .8 .5 .1 .5 1.0 .8 .6 .3	1.4 .5 .1	1.3 4.6 7.10 11.16 17.21 1.4 .5 .1 2.2 2.8 3.6 .3 4.0 10.4 6.2 .1 5.1 4.9 1.9 3.6 2.4 .3 1.4 .3 .8 .1 1.4 1.4 1.4 1.4 .1 2.1 5.0 5.0 .8 2.2 3.1 5.9 1.6 .5 .8 .5 .6 .1 .5 1.0 .1 .8 .6 .3 .2 .1 .5 1.0 .1 .8 .6 .3 .2 .1 .5 1.0 .1 .8 .6 .3 .2 .1 .1 .1 .1	1.4 .5 .1	1-3 4-6 7-10 11-16 17-21 22-27 22-33	COMPATION 1 - 3	COMPATION 1 - 3	COMBITTOR 1-3	COMPATION 1-3 4-6 7-10 11-16 17-21 22-27 22-33 34-40 41-47 48-55 ≥56 1-4 -5 -1	CAMPLE COMPLETE COMP

USAFETAC AR 64 0-8-5 (OL A) PREVIOUS SOMEONS OF THIS FORM AND OBSOLET

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SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

35032 STATION	RHEIN-MAIN APT GERHANY/FRANKFURT	67-76	AUC_
	ALL WE	ATHER	0900-1100
		A90	HOURS (L.S T.)
	CONI	PITION	

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥54	%	MEAN WIND SPEED
N	.2	1.5	•6									2.3	5.4
NHE	1.8	3.2	3.9	1.1								10.0	6.7
NE	1.0	3.7	4.2	• 1								9.0	6.2
ENF	1.5	4.5	2.9	• 3								9.2	5.8
E	1.5	3.4	3.0	•6								8.4	6.2
rse	8.	1.6	1.4	• 1								3.8	5.6
SE	•6	.5	• 5									1.5	5.2
SSE	.8	•1	• 1									1.0	3.0
\$	1.2	1.8	1.7	. 5								5.2	6.1
SSW	1.1	3.2	4.5	1.6						J		10.4	7.5
SW	1.5	3.9	3.7	3.0	,3							12.5	7.8
WSW	.7	1.0	3.6	2.8	, 5							8.6	9.6
w	.7	. 9	1.4	1.6			l					4.5	8.4
WNW		. 8	1.0	• 2	<u> </u>							2.0	7.4
NW		.2	1.2	3								1.8	9.0
NNW	1	.3	• 1									•6	5.0
VARBL	6.2	1.9										8.1	2.5
CALM	><	$\ge \le$	$\geq \leq$	\times	$\geq \leq$	\boxtimes	$\geq \!$	\bowtie	\times	$\geq \leq$	$\geq \leq$	1.1	
	19.6	32.4	33.8	12.3	.8							100.0	6.5

TOTAL NUMBER OF OBSERVATIONS

888

USAFETAC FORM 0-8-5 (QL. A) PREVIOUS EDITIONS OF THIS FORM AND OBSOLET

0 DATA PROCESSING BRANCH SURFACE WINDS 2 ETAC/USAF AIR WEATHER SERVICE/MAC PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS) RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 C ALL WEATHER C C MEAN WIND SPEED 0 6.5 1.7 1.4 NNE 7.8 7.9 0 ENE 1.9 7.1 • 2 6.5 3.4 3.1 O 6.9 ESE 6.1 SSE 1.0 O \$ 1.9 3.8 2.2 3.6 () WSW 1.9 4.5 10.1 7<u>.B</u> WNW 8.1 O 8.1 NHW 8.1 غعا YARBL () •6 0 TOTAL NUMBER OF OBSERVATIONS 863

USAFETAC FORM 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE DESCRIPT

SURFACE WINDS

1500-1700

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ALL WEATHER

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

					CONI	DITION			····				
	_												
SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	ME. WII SPE
N	•2	1.9	1.9	•2	,1			<u> </u>				4.5	7
NNE	.7	1.8	3.4	1.7								7.7	7
NE	.5	2.1	3.0	• 5								6.0	7
ENE	1.8	-3.0	2.3	•2								7.3	
Ę	.9	2.7	2.5	• 5								6.6	_ 6
2SE	.1.1	.1.8	.8	•1								3.9	
SE .	• 3	1.8	. 8	• 1								3.1	
SSE	1.0	1.0	. 5									2+5	- 4
S	7	2.9	2.2	.3			l					6.1	- 6
SSW	.7	1,8	2.6	1.00	.1							6.9	
SW	۸٠3	1.1	.3.0	3.8								8.2	9
WSW	1.0	.1.4	2.5	4.6	.9							10.4	10
W	8	1.7	2.4	.2.3	6							7.8	
WNW	- 62	6	2.).	9								3.8	8
NW	8	1.0	2,3	6								4.7	
NNW	5	9	1,4	2								3.0	6
VARBL	74.5	2.2										6.6	
CALM	><	$>\!\!<$	$>\!\!<$	><	\times	$>\!\!<$	><	><	$\supset <$	><	><	•9	
	1672	29 29	33.7	17.6	1.7			-				100.0	7

TOTAL NUMBER OF OBSERVATIONS

873

USAFETAC FORM - 0-8-5 (QL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLET

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SURFACE WINDS

TOTAL NUMBER OF OBSERVATIONS

AUG

876

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

	~-				ALL WE	ATHER		·				1800 HOVE	-2000
	_				CON	BOTTE							
SPEED (KNTS) DIR.	1.3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1.1	2.3	1.0	•1			 	 	 			4.6	5.0
NNE	2.7	3.8	3.3	6		<u> </u>						10.4	5.7
NE	2.2	4.2	3.2	. 3			<u> </u>	1				9.9	5.7
ENE	3.1	3.8	1.0					1		i i		7.9	4.1
E	6.7	3.1	.3				<u> </u>					10.2	3.1
ESE	2.4	1.1	•1									3.7	3.2
SE	.9	•1	• 1									1.1	3.1
SSE	1.1	.6	2									1.9	3.4
5	2.4	2.7	1.8	•1								7.1	5.0
SSW	.8	1.7	2.7	1.0								6.3	7.3
SW	1.0	1.8		1.5								8.6	7.6
WSW	.6	1.6	1.8	1.3	- 1							5.4	8.0
W	.6	. 9	2.3	1.4	.1							5.3	8.1
WNW	.2	1.5	7	. 5								2.9	7.2
NW	.3	2.4	1.1	.5	- 1							4.5	7.1
NNW	1.1	1.8	1.3	•2								4.5	5.3
VARBL	2.3	.1										2.4	1.7
CALL												3.7	

USAFÉTÁC FORM 0-8-5 (QL.A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING BRANCH SURFACE WINDS 2 ETAC/USAF AIR WEATHER SERVICE/MAC PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS) (RHEIN-HAIN APT GERMANY/FRANKFURT 67-76 AUG 2100-2300 HOURS (L S T.) SPEED (KNTS) DIR. MEAN WIND SPEED 1 - 3 11 - 16 7 - 10 17 - 21 ≥56 C 1.5 1.4 . 6 3.5 13.8 4.7 5.7 4.9 C 19.1 NE 4.1 9.3 2.0 <u>7.7</u> 6.4 3.6 ENE 3.2 3.0 2.6 4.0 E 2.2 ESE 1.6 SE 1.4 3.5 3.1 3.5 8.3 4.2 6.0 2.6 SSW 2.0 6.6 1.1 4.0 sw 5.5 7.0 •1 WSW 1.2 W 7.1 WNW •6 .8 3.0 6.0 NW 1.6 5.8 2.1 1.7 NNW .6 2.6 VARBL 4.3 100.0

TOTAL NUMBER OF OBSERVATIONS

881

SURFACE WINDS

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ALL WEATHER

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

					COM	DITION						
	-				<u></u>			 				
SPEED (KNTS) DIR,	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*
N	1.0	•6	•1									1.
NNE	3.5	3.6	1.4	.4								8.
NE	9.8	7.3	1.7									18.
ENE	6.8	1.9										8.
E	3.6	•2										3.
ESE	1.1	•1										1.
SE	1.1											1.
SSE	.8	•4										1.
\$	3.0	4.6	3.0	•2		T						10.
SSW	3.5	5.5	4.4	2.8	.1							16.
SW	1.1	1.2	1.8	1.8								5.
WSW	1,3	.6	•7			i						2.
W	1.0	.7	.5	•7								2.
WNW	.1	•1	•1									
NW	• 2	.2	•2									•
NNW	.4	.5	•1									1.
YARBL	1.2							l				1.
CALM		$\overline{}$	$\overline{}$	$\overline{}$					>		$\overline{}$	12.

USAFETAC TORM 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM AND OBSOLETE

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

DIR.	i						1		1	1	•		SPEED
N	.4	.1										.5	2.5
NNE	1.9	3.4	1.4									6.7	5.0
NE	9.9	6.0	1.4									17.3	3.6
ENE	10.2	2.5	•2									12.9	2.6
Ε	5.1	.2					1		 		i	5.3	1.8
ESE	1.3											1.3	1.5
SE	.7	.1										. 8	2.0
SSE	1.2	.2										1.4	2.3
S	4.0	5.1	2.4	.6								12.0	5.0
_\$5W	2.9	4.7	4.0	2.9								14.6	6.7
SW	1.2	2.0	2.6	1.1	.2							7.1	7.2
WSW	1.3	7.7	. 7	5	•					I		3.2	5.4
w	2	5	.5						<u> </u>			1.2	5.8
WNW	1	.2	. 2	1								7	7.2
NW	i	. 2	.1									- 5	4.8
NNW	. 5											5	1.5
VARBL	2.0											2.0	1.8
CALM	><	><	><	$>\!\!<$	$>\!<$	><	><	><	><	><	><	12.2	
	42.9	26.0	13.5	5.2	.2							100-0	3.9

TOTAL NUMBER OF OBSERVATIONS 851

USAFETAC FORM 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

C

RHEIN-MAIN APT GERMANY/FRANKFURT

SURFACE WINDS

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

	-				ALL WE	ATHER	·					0600	
	- -				сон	DITION							
SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 15	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	
N	1.6	.5	•1									2.2	Ī
NNE	1.3	2.2	2.7									6.3	
NE	4.8	9.4	3.3	•2							مير	17.8	
ENE	6.1	3.9	.7									10.6	
E	4.8	1.5										6.3	
ESE	1.8											1.8	1
SE	.9	-1										1.1	
SSE	•7	.5										1.2	
	1.9	2.7	2.6	1.3					<u> </u>			844	
SSW	1.6	4.8	5.8	2.3	.1			<u> </u>				14.0	<u>_</u>
SW	1.4	5.8	2,5	2.2	•1					<u> </u>		12.0	
WSW	1.3	2.3	.5	•6	. 1	1						4.0	
w	-2	6		•2				<u> </u>				1.2	
WNW	 		.5	•2				 		ļ			
NW	 	1	2							<u> </u>			
WHM								 		ļ	L		
VARBL	1.8			-		k		-		 		1.0	
CALM		$\geq \leq$	$\geq \leq$	> <	> <	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	8.3	•
· · · · · · · · · · · · · · · · · · ·	30.2	34.5	18.9	7.4	, 5						مزه	100 •)

USAFETAC FORM 0-8-5 (QL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

RHEI	N=MAIN	APT GE	RMANY	ERANKE	URT	674	76		TEARS			<u>{</u>	EP.
					VLT A	ATHER.						_0900 HOUNE)-11 (L1.7
	_				con	DITION							
SPEED (KNTS) DIR.	1.3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*.	ME Wil SPE
Z	4	.6	.5									1.4	
NNE	1.7	3.9	_3.2	6	.1.					ii		9.5	
NE	1.4	3.2	2.9	. 8								8.3	
ENE	1.5	4.9	2.0	.2						i		8.7	
F	1.8	2.7	1.3									5.8	_
ESE	1.0	.8										1.8	
SE	.8	•2	.2						 			1.3	
SSE	-4											.7	
\$	1.8	2.7	3.6	1.8								9.9	
SSW	2.7	.4.0	4.5	4.2								16.3	
SW	1.0	5.1	4.5	468	1.1	. 1						16.5	9
WsW	1.3	1.8	1.3	1.5	, Ž							6.2	
*	- 6	Â	5	. 8	2							3.0	
WNW		.2	4	2	1							1.3	
NW	ı	4	2	• 2								1.0	
NNW	ž	i	1	. 2								.7	
VARBL	446	1.1	, ,									5.7	2
CALM	$\geq \leq$	$\geq <$	$\geq \leq$	$\geq \leq$	$\geq \leq$	\times	$\geq \leq$	\geq	$\geq <$	$\supset <$	$\geq <$	2.0	
	21.6	33.8	25.2	15.4	1.8	1						100.0	_6

TOTAL NUMBER OF OBSERVATIONS

USAFETAC FORM 0-8-5 (QL'A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

35032 STATION	RHEI	N-HAIN	APT GE	RMANY	FRANK	FUR T	67-	-76	 ,	TEA RS	·			SEP
		_				ALL W	EATHER							0-1400 M (L3.1)
		-				con	IDITION				_ _			
	SPEED (KNTS) DIR.	1 - 3	4.6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED

SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	.8	.8	•7	•1								2.5	5.5
NNE	.7	2.5	3.5	1.1								7,8	7.3
NE	.7	2.0	3.7	1.0								7.5	7.5
ENE	.1	2.0	2.0						Γ			4.2	6.2
E	.8	2.0	1.1									4.0	5.2
ESE	.4	•6	1.6									2.5	6.7
SE	.5	•6	•4					!				1.4	4.8
SSE	.6	.8	•1	•1			i					1.7	4.0
\$	1.3	2.6	2.4	3.1	•2							9.7	8.2
SSW	2.0	3.8	6.5	2.9	,6							15.9	8.0
sw	.5	3.7	4.4	4.0	1.6							14.2	9.9
WSW	1.4	1.6	2.9	3.5	1.4							10.8	10.1
w	1	1.4	1.3	1.4	,2							4.6	8,9
WHW		.5	•7	•6								1.8	9.1
NW	.4	.4	.5									1.6	7.4
NNW	.5	. 8	.4	.1								1.8	5.7
VARBL	,5.5	1.8								1		7.3	2.9
CAUA	$\geq \leq$	$\geq \leq$	$\geq \leq$	\geq	$\geq \leq$	><	\geq	\geq	$\geq \leq$	\geq	\times	.7	
	16.5	28.2	32.2	18.3	4.1							100.0	7,6

TOTAL NUMBER OF OBSERVATIONS

832

USAFETAC FORM 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLET

SURFACE WINDS

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

RHEIN-MAIN APT GERMANY/FRANKFURT

	_				ALL	ATHER		 -		—		_1500 HOVE)-17 (LA.)
	-				CON	117104				-			
SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	2: - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	ME WI \$21
N	1.4	1.8	1.2	.2			<u> </u>					4.5	
NNE	. 8	2.5	2.5	. 8								6.6	
NE	1.2	1.9		- 2						·	1	7.5	
ENE	1.6	3.2	1.2	•2								6.2	
E	2.3	2.9	.5				<u> </u>			1	1	5.7	
ESE	1.9	1.6	.6									4.1	
SE	1.2	-4									T	1.9	
SSE	2.0	6	2		i							2.8	
5	2.6	3.6	4.2	1.6								12.1	
SSW	1.3	3.2	4.2	2.1	2							11.0	
SW	.7	2.5	4.0	2.5	- 4				Γ			10.0	
WSW	2.3	1.1	2.9	3.8	.7							10.8	
W	2	.2	1.9	1.9								4.2	1
WNW	1	7	.7	1.1								2.6	
NW		1.1	1.5	.5						•		3.2	
NNW	6	. 8	. 9	•1							L	2.5	
VARSL	.3.0	, Ž										3.3	
CALM	$>\!\!<$	\times	$>\!\!<$	$\geq \leq$	$\geq \leq$	><	><	><	$\triangleright <$	$\geq <$	$\geq <$	1.1	ستور

USAFETAC FORM 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLUTE

35032 RHEIN-MAIN APT GERHANY/FRANKFULT 67-76

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SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (COOM HOURLY OBSERVATIONS)

					ALL WE	ATHER						1800	
					(94)	DITKN							
SPEED (KNTS) DIR.	1-3	4-6	7 - 10	11 - 16	17 - 2:	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥:6	%	
N	1.9	1.5	.7	•1								4.3	r
NNE	3.9	4.4	2.6	.4						i		11.2	Γ
NE	4.1	3.4	1.3	•2			-		 	!	1	9.1	Γ
ENE	3.4	2.2					,			Γ		5.7	ŗ
E	4.1	2.4										0.5	Γ
ESE	2.5	.2										2.7	Γ
SE	2.01	.6										2.6	Γ
SSE	1.8	- 9	1	• 1				Ĺ				3.0	I
5	3.5	3.4	4.6	42			L					11.8	L
SSW	102	٥.٤	4.0						L	<u> </u>		9.5	L
SW	180	1.8	3.5	1.2	• 1				L		1	7.6	L
W\$W	-2	1.5	2.2	.9	. 1					<u> </u>	<u> </u>	5.1	Į.
<u>w</u>	. 7	9	.9	•5					· ·			3.1	Ļ
WNW	el	1.1	-4	0.4				<u> </u>		ļ		1.9	ļ.
NW.	-5	.9	1.8		• 1	<u> </u>		ļ				3.3	ļ.
HHW	-7	1.9	5	-2		 _		ļ	<u> </u>			3.3	Ļ
VARSL	2.2	<u></u>				_ _	<u> </u>		 		إحسيإ	2.7	ŀ
CAUA		$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$		$\geq \leq$	6.7	Į
	22.8	30.6	22.7	5.7	. 4		!]]	100.0	Γ.

TOTAL NUMBER OF CESSERVATIONS

USAFETAC AL C-8-5 (OF A) PREVIOUS SEJTIONS C' TIME PURM ANS OBJULETE

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SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

	_				CDN	PITION							
SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	×	MEAN WIND SPEED
N	1.7	1.1										2.7	
NNE	5.0	3.8	2.9									11.8	4.
NE	8.6	6.5	1.3									16.4	3.
ENE	5.9	2.3										8.2	2.
E	3.1	2										3.3	2,
ESE	1.2	•2										1,4	2.
SE	-4	- • 4										.7	3.
SSE	1.3	•1										1.4	2.
5	3.9	4.5	3.1	•7								12.2	5.
SSW	1.5	5.9	5.6	1.8	•1							13.0	7,
SW	1.3	1.2	1.9	1.7								6.1	7,
WSW	1.1	- 4	1.3	- 5.	•2							3.4	7.
w	2	6	. 5	. 5	1		L					1.9	8.
WNW		1.1	ŝ									1.7	6.
NW	. 6	. 5	.4									1.4	4.
NNW	•1	.6	. 4									1.1	5.
VARBL	2.4	. 2							L			_ 2.6	1.
CALM	\times	$>\!\!<$	><	\times	><	\times	><	><	><	><	><	10.6	
	38.4	27.6	17.7	5.2	5 5	!						100-0	4.

USAFETAC FORM 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ANY OBSOLETE

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SURFACE WINDS

TOTAL NUMBER OF OJSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

					ALL WE	ATHER				_		0000)-02
					CON	DITION							
SPEED (KNTS) DIR.	1.3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEA WIN SPE
N	.5	.2	.5									1.2	4
NNE	1.5	2.5	1.5	6								6.1	5
NE	7.1	6.9	1.2	. 5								15.4	3
ENE	_0.1	4.8	-1									11.0	
Ε	3.6	1.2	-1							T		4.9	2
ESE	. 2	- 4					l —					- 6	4
SE	. 8											. 8	
SSE	1.3	.2										1.5	1
5	3.7	3.2	2.6	•9								10.4	5
SSW	3.7	4.6	5.6	2.3								16.2	6
SW	2.0	2.2	4.0	2.5	.4				T			11.0	7
WSW	1.1	1.2	7	5	1							3.5	6
w	4	1.5	6									2.5	5
WHW	•	.7	- 4	5								1.5	8
NW	.2	1	- 4					T				.7	5
MMA	2	i	- 1	-1								6	_ 6
VARBL	2.2											2.2	1
CAUA	\times	> <	\times	$\ge <$	\times	$\geq \leq$	\boxtimes	$\geq \leq$	\geq	><	X	9.9	
	34.7	29.7		7.6	.5		·					100.0	

USAFETAC AL 45 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

032	RHEI	N-MAIN	APT GE	RMANY	FRANKE	URT	67.	-76		TLA BS				C T
		-	 			VIT A	ATHER		 ,				0300)=0500 (L.s.T.)
		_				CÓR	1917;04				_			
	SPEED (KNTS) DIR,	1.3	4 - 4	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
	N	.6	.3	.7							 		1.6	5.5
ſ	NNE	2.9	2.3		• 2					<u> </u>	 		6.2	4.2
ſ	NE	7.3	6.7	1.6							 		15.7	3.8
ſ	ENE	6,2	4.2	•2									10.6	3.3
ı	ŧ	3.2	1.7	.1				 			 		5.0	2.9
Ī	i.SE	.9											.9	1.8
ľ	SE	.5											.5	1.5
Ī	SSE	.5	.3	•1	•1								1.0	4.7
ſ	\$	3.0	3.4		1.0			<u> </u>			l		9.7	5.7
	SSW	3.4	4.3		2.6	.2	1						15.9	7.0
ſ	\$W	2.3	3.0		2.5	.2							10.4	7.4
ſ	WSW	1.7	1.1	1.0	,9	.2							5.0	6.8
{	w	. 5	.9		• 8			<u> </u>					3.1	7.7
[WNW	. 2	6	. 2	•1								1.1	5.7
[PW.	-1	.7	• 2									1.0	5.1
[HHW	.2	.1		• 2								•6	8.0
[VARSL	1.9											2.1	1.8
	CALM	$\geq \leq$	$\geq \leq$	> <	> <	$\ge $	$\geq <$	\boxtimes	$\geq \leq$	$\geq \leq$	\boxtimes	$\geq \leq$	9.6	
ſ						_	1	T			1			

USAFETAC FORM 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

O

0

SURFACE WINDS

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

RHEIN-HAIN APT GERMANY/FRANKFURT 67-76

(KNTS) 1·3 4·6 7·10 11·16 17·21 22·27 28·33 34·46 41·47 48·55 ≥56 % SS N	(KNTS) 1-3 4-6 7-10 11-16 17-21 22-27 28-33 34-46 41-47 48-55 2-56 % SP N	1	33.1	28.8	20.3	9.8	1.5		l		ł	1 1		100-0	
(KINTS) DIR. N	(KNTS) 1·3 4·6 7·10 11·16 17·21 22·27 28·33 34·40 41·47 48·55 ≥56 X W N 8 1 9 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.2 1	CALM	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	6.6	
(KNTS)	(KNTS) DIR. 1 · 3 4 · 6 7 · 10 11 · 16 17 · 21 22 · 27 28 · 33 34 · 46 41 · 47 48 · 55 ≥56 % W. S.P. N	VARBL	202						ļ		Ļ	_			1
(KNTS) 1 · 3 4 · 6 7 · 10 11 · 16 17 · 21 22 · 27 28 · 33 34 · 40 41 · 47 48 · 55 ≥56 % W N 0 8 0 1 0 9 1 0 0 7 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 <td< td=""><td>(KNTS) DIR. 1 · 3 4 · 6 7 · 10 11 · 16 17 · 21 22 · 27 28 · 33 34 · 46 41 · 47 48 · 55 ≥56 X Winter Sp. N ■ 8 ■ 1 ■ 9 ■ 1 · 8 ■ 1 · 8 ■ NNE ± 8 5 · 7 1 · 9 ■ 3 ■ 1 · 2 · 7 ■ ■ 1 · 2 · 7 ■ ENE ± 9 ± 2 • 9 ■ ■ 1 · 10 ■ ■ 1 · 2 · 7 ■ ■ 1 · 2 · 7 ■ ■ ■ ■ 1 · 2 · 7 ■ ● ■ ■ ■ ■ ■ ● ■ ■</td><td></td><td></td><td>1</td><td>2</td><td>2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	(KNTS) DIR. 1 · 3 4 · 6 7 · 10 11 · 16 17 · 21 22 · 27 28 · 33 34 · 46 41 · 47 48 · 55 ≥56 X Winter Sp. N ■ 8 ■ 1 ■ 9 ■ 1 · 8 ■ 1 · 8 ■ NNE ± 8 5 · 7 1 · 9 ■ 3 ■ 1 · 2 · 7 ■ ■ 1 · 2 · 7 ■ ENE ± 9 ± 2 • 9 ■ ■ 1 · 10 ■ ■ 1 · 2 · 7 ■ ■ 1 · 2 · 7 ■ ■ ■ ■ 1 · 2 · 7 ■ ● ■ ■ ■ ■ ■ ● ■ ■			1	2	2									
(KNTS) 1 · 3 4 · 6 7 · 10 11 · 16 17 · 21 22 · 27 28 · 33 34 · 40 41 · 47 48 · 55 ≥ 56 % W N 0 8 0 1 0 9 1 0 0 7 0 1 0<	(KNTS) DIR. 1 · 3 4 · 6 7 · 10 11 · 16 17 · 21 22 · 27 28 · 33 34 · 46 41 · 47 48 · 55 ≥56 X Windle Spin Spin Spin Spin Spin Spin Spin Spin														
(KNTS) 1 · 3 4 · 6 7 · 10 11 · 16 17 · 21 22 · 27 28 · 33 34 · 40 41 · 47 48 · 55 ≥ 56 % W N 08 01 09 10 0 · 7 0	(KNTS) DIR. 1 · 3 4 · 6 7 · 10 11 · 16 17 · 21 22 · 27 28 · 33 34 · 46 41 · 47 48 · 55 ≥56 × W N • 8 • 1 • 9 • 1 · 8 • 1 · 8 • 1 · 8 • 1 · 8 • 1					2					↓			1.1	
(KNTS) 1 · 3 4 · 6 7 · 10 11 · 16 17 · 21 22 · 27 28 · 33 34 · 40 41 · 47 48 · 55 ≥ 56 % W N 08 01 09 1 · 0 0 1 · 8 1 · 8 1 · 8 1 · 8 1 · 8 1 · 0 <td>(KNTS) DIR. 1 · 3 4 · 6 7 · 10 11 · 16 17 · 21 22 · 27 28 · 33 34 · 46 41 · 47 48 · 55 ≥56 × W. S.P. N 0 8 0 1 · 8 1 · 8 1 · 8 1 · 8 1 · 8 NNE 2 · 3 9 1 · 0 .7 1 · 2 · 7 1 · 2 · 7 1 · 2 · 7 </td> <td></td> <td></td> <td></td> <td></td> <td>5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	(KNTS) DIR. 1 · 3 4 · 6 7 · 10 11 · 16 17 · 21 22 · 27 28 · 33 34 · 46 41 · 47 48 · 55 ≥56 × W. S.P. N 0 8 0 1 · 8 1 · 8 1 · 8 1 · 8 1 · 8 NNE 2 · 3 9 1 · 0 .7 1 · 2 · 7 1 · 2 · 7 1 · 2 · 7					5									
(KNTS) DIR. 1 · 3 4 · 6 7 · 10 11 · 16 17 · 21 22 · 27 28 · 33 34 · 40 41 · 47 48 · 55 ≥ 56 % W SI N 0 8 0 1 0 9 1 0 0 7 0 1 0 <t< td=""><td>(KNTS) DIR. 1 · 3 4 · 6 7 · 10 11 · 16 17 · 21 22 · 27 28 · 33 34 · 46 41 · 47 48 · 55 ≥56 X Windows N 0 8 0 1 0 0 0 0 1 0<td></td><td>1.8</td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td><u> </u></td><td></td><td></td><td></td><td></td></td></t<>	(KNTS) DIR. 1 · 3 4 · 6 7 · 10 11 · 16 17 · 21 22 · 27 28 · 33 34 · 46 41 · 47 48 · 55 ≥56 X Windows N 0 8 0 1 0 0 0 0 1 0 <td></td> <td>1.8</td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td><u> </u></td> <td></td> <td></td> <td></td> <td></td>		1.8				1				<u> </u>				
(KINTS) 1 · 3 4 · 6 7 · 10 11 · 16 17 · 21 22 · 27 28 · 33 34 · 40 41 · 47 48 · 55 ≥ 56 % W N 08 01 09 10 07 0	(KNTS) DIR. 1 · 3 4 · 6 7 · 10 11 · 16 17 · 21 22 · 27 28 · 33 34 · 46 41 · 47 48 · 55 ≥56 % W. S.P. N 0 8 1 0 7 1 · 8 1 · 8 1 · 8 1 · 8 1 · 8 1 · 8 1 · 2 · 7 1 · 1 · 8 1 · 2 · 7 1 · 1 · 10 1 · 1 · 10 1 · 1 · 10 1 · 1 · 10 1 · 1 · 10 1 · 1 · 10 1 · 1 · 10 1 · 1 · 10 1 · 1 · 10 1 · 1 · 10 1 · 1 · 10 1 · 1 · 10 1 · 1 · 10 1 · 1 · 10 1		1.6	-3.0		2.4								12.5	
(KINTS) 1 · 3 4 · 6 7 · 10 11 · 16 17 · 21 22 · 27 28 · 33 34 · 40 41 · 47 48 · 55 ≥ 56 % W N 08 01 09 10 0 7 10 <t< td=""><td>(KNTS) DIR. 1·3 4·6 7·10 11·16 17·21 22·27 28·33 34·46 41·47 48·55 ≥56 % Windle Spin Spin Spin Spin Spin Spin Spin Spin</td><td>SSW</td><td></td><td></td><td>5.1</td><td>3.6</td><td>- 6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	(KNTS) DIR. 1·3 4·6 7·10 11·16 17·21 22·27 28·33 34·46 41·47 48·55 ≥56 % Windle Spin Spin Spin Spin Spin Spin Spin Spin	SSW			5.1	3.6	- 6								
(KNTS) DIR. 1 · 3 4 · 6 7 · 10 11 · 16 17 · 21 22 · 27 28 · 33 34 · 40 41 · 47 48 · 55 ≥ 56 % W SI N 0 8 0 1 0 0 1 0 1 0 1 0 1 0 0 1 0	(KNTS) DIR. 1 · 3	3	3.6	3.1	2.6	-6								9.7	
(KNTS) DIR. 1 · 3	(KNTS) DIR. 1 · 3		5	-1										. 7	
(KNTS) DIR. 1 · 3 4 · 6 7 · 10 11 · 16 17 · 21 22 · 27 28 · 33 34 · 40 41 · 47 48 · 55 ≥56 % Si N a B a 1 a 9 1 · 8 1 · 8 NNE 2 · 3 a 9 1 · 0 a 7 4 · 9 NE 4 · 8 5 · 7 1 · 9 a 3 12 · a 7 ENE 3 · 9 4 · 2 a 9 11 · 0 6 · 3 E 3 · 5 2 · 6 a 1 6 · 3 6 · 3	(KNTS) DIR. 1 · 3			2	2									1.8	
(KNTS) DIR. 1 · 3 4 · 6 7 · 10 11 · 16 17 · 21 22 · 27 28 · 33 34 · 40 41 · 47 48 · 55 ≥56 % SI N 0 8 0 1 0 9 1 · 8 1 · 8 1 · 8 NNE 2 · 3 0 9 1 c 0 0 7 4 · 9 4 · 9 NE 4 · 8 5 · 7 1 · 9 3 12 · 7 ENE 3 · 9 4 · 2 0 9 11 · 0	(KNTS) DIR. 1 · 3	ESE	1.8	.3										2.2	
(KNTS) DIR. 1 · 3 4 · 6 7 · 10 11 · 16 17 · 21 22 · 27 28 · 33 34 · 40 41 · 47 48 · 55 ≥56 % SI N • 8 • 1 • 9 • 1 · 8 NNE 2 · 3 • 9 1 · 0 • 7 NE 4 · 8 5 · 7 1 · 9 • 3	(KNTS) DIR. 1 · 3	Ę	3.5	2.6	1										
(KNTS) DIR. 1 · 3 4 · 6 7 · 10 11 · 16 17 · 21 22 · 27 28 · 33 34 · 40 41 · 47 48 · 55 ≥56 % SI N • 8 • 1 • 9 1 • 8 NNE 2 • 3 • 9 1 • 0 • 7	(KNTS) DIR. 1 · 3	ENE			. 9									11.0	
(KNTS) 1 · 3 4 · 6 7 · 10 11 · 16 17 · 21 22 · 27 28 · 33 34 · 40 41 · 47 48 · 55 ≥ 56 % W SI N 8 8 8 8 8 9 1 8 9 1 8 8	(KNTS) 1 · 3 4 · 6 7 · 10 11 · 16 17 · 21 22 · 27 28 · 33 34 · 46 41 · 47 48 · 55 ≥ 56 % William N 8 1 8 1 8 9 1 1 8 8	NE		5.7		.3									
(KNTS) 1 · 3 4 · 6 7 · 10 11 · 16 17 · 21 22 · 27 28 · 33 34 · 40 41 · 47 48 · 55 ≥56 % W	(KNTS) 1 · 3 4 · 6 7 · 10 11 · 16 17 · 21 22 · 27 28 · 33 34 · 46 41 · 47 48 · 55 ≥ 56 % Wi	NNE	2.3	. 9	1.0	7								,,	
(KNTS) 1 · 3 4 · 6 7 · 10 11 · 16 17 · 21 22 · 27 28 · 33 34 · 40 41 · 47 48 · 55 ≥56 % W	(KNTS) 1 · 3 4 · 6 7 · 10 11 · 16 17 · 21 22 · 27 28 · 33 34 · 40 41 · 47 48 · 55 ≥56 % ₩	N	. 8	.1	.9									1.8	
SPEED		(KNTS)	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 46	41 - 47	48 - 55	≥\$6	*	ME WI SPI
COMBITION							ALL ME	A96						.0600 HOU BA	(L.S.

USAFETAC FORM 0-8-5 (OL A) PREVIOUS COLTIONS OF THIS FORM ARE OBSOLETE

RHEIN-HAIN APT GERMANY/FRANKFURT

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SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

					ALL WE	ATHER						0900	1100 (L3.7.)
					COA	BITION							
SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	•6	•2	1.0		•1		 		 	 		1.9	6.8
NNE	.8	1.5	1.8	8.	.1							4.9	7.3
NE	1.7	3.1	3.4	. 8		[9.0	6.4
ENE	2.2	3.5	2.7				<u> </u>					8.4	5.2
£	3.6	2.7	1.9			i				i		8.2	4.4
ESE	1.1	1.1	1.0	•1					<u> </u>			3.4	5.1
SE	.7	.3	• 1									1.1	3.0
SSE	.4	.2	•2									.9	4.3
S	2.4	2.4	1.0	•7								6.4	5.3
SSW	2.2	4.4	5.2	3.4	•2							15.4	7.6
sw	3.0	5.6	4.4	4.2	,9		•1					18.2	8.1
wsw	1.5	1.8	2.6	2.2	.8							8.9	8.8
w	.8	.7	1.1	1.6	•1	• 2				T		4.5	9.6
WNW	•1	.6	1.1	•6					1		i	2.4	8.3
NW		•2	.7	•3		- 2						1.5	11.5
NAM			2	1		·	I	· · · · · · · · · · · · · · · · · · ·		1		7	10.0

TOTAL NUMBER OF CHSERVATIONS 891

2.2

6.7

JSAFETAC FORM 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM AND OBSOLET

DATA PR ETAC/US AIR WEA	AF			` ,		ECTION	QUENCY AND SP OBSERV	EED		•	SUR	FACE	WIN	NDS
35032	RHEI	N-MAIN	APT GE	RMANY	'ERANKE	URT	67=	76					<u>u</u>	CT
***************************************		_	•			ALL WE			·				1200	-1400 ((4.1.)
		_											80418	(6.4.1.)
		_				COM	BITION							
		_												
	SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	24 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
	N	.2	.5	.7	•2								1.6	6.7
	NNE	6	1.6	2.1	7	2							5.2	7.7
	NE	1.2	2.4	3.2	1.0						ļ		7.8	7.1
	ENE	8	2.2	1.3	6							 -	4.8	5.3
	ESE	1.0	1.0	2.2	•1							 -	3.3	5.4
	SE	- 5	.5	.3									1.3	4,9
	SSE	.5	.7	•1									1.3	3.6
	5	1.6	1.7	1.4	•2								5.0	5.6
	SSW	1.4	3.7	5.7	2.7	.3							13.7	8.0
	SW	2.2	-3.1	4.5	6.0	1.0	2					<u> </u>	17.2	9.8
	WSW	1.6	2.7	3.1	3.0	1.4	3						12.1	9.5
	<u>w</u>	7	1.3	2.1	2.5	1.4						 -	8.0	10.6
	WNW	<u> </u>	B	2.0	1.2						ļ		- 404	8.8
	NNW	3		5_							 		1.3	6.3
	VARBL	3.7	2	3	- 2						 	 	4.0	8.3 2.2
	CALM		\sim	$\overline{}$	>>	\times	$\overline{\mathbf{x}}$	\sim	\sim	>	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		1.2	
														7.7
		18.5	26.0	30.6	18.6	4.5	7					Lll	100.0	

USAFETAC FORM 0-1-5 (OL

0

SURFACE WINDS

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

35032 STATION	RHEI	N-MAIN	APT GE	RMANY	FRANKE	URT	67-	-76		TEARS				C T
						ALL WE	ATHER						1500	-1700
		-				CON	DITION							
	SPEED (KNTS) DIR.	1.3	4-6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MAAN CYIW D2382
	N	.9	.8	.8	• 3				 	ļ			2.8	6.1
	NNE	.3	1.5	1.9	1.5	•1							5.3	8.6
	NE	1.7	2.6	1.7	1.5								7.5	6.6
	ENE	2.4	1.4	.9									4.6	4.3
	E	4,5	4.2	1.1									9.8	4.0
	ESE	9	• 2	•1							l		1.2	3.4
	S€	1.0	.2	.1	•1								1.5	3.5
	SSE	1.2	.1							 	 		1.4	2.3
	\$	3.1	3.8	2.9	•1								10.0	5.1
	SSW	2.4	4.3	4.9	1.7								13.2	6.6
	SW	2.7	3.3	4.8	3.2	.9	•1						14.9	8.3
	WSW	.8	2.3		2.4	, 3	• 1						8.5	8.8
	w	. 8	.9	1.7	2.5	.7							6.6	10.2
	WNW	.6	.9	2.3	• 3	.1							4.2	7.6
	NW	.3	1.2										2.8	6.1
	NNW	• 1	.5	.6	-1								1.2	6.3
	VARSL	.7	.3										1.0	2.4
	CALM	$\geq \leq$	$\geq \leq$	$\geq \leq$	\times	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	\geq	$\geq \leq$	3.4	
			20.5	07.		• •	_	1					100 0	4 8

USAFETAC FORM 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PRUCESSING BRANCH 2 SURFACE WINDS ETAC/USAF AIR WEATHER SERVICE/MAC PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS) 1 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 1800-2000 (SPEED (KNTS) DIR. MEAN WIND SPEED 1 - 3 7 - 10 17 - 21 22 - 27 11 - 16 41 - 47 ≥56 N 6.0 HHE 1.7 6.6 NE 9.8 3.6 2.0 ENE 7.6 4.1 3,3 5.8 C ESE SE SSE 1.1 1.8 C 5 11.4 SSW 1.5 8.0 SW WSW 7.0 1.6 3.4 معد 1.7 8.2 7.6 NW ه. 1.6 NNW 5.5 VAREL O 8.7 CALM TOTAL NUMBER OF OBSERVATIONS 0

USAFETAC FORM 0-8-5 (QL A) PREVIOUS EDITIONS OF THIS FORM ARE DESCRIPT

DATA PRUCESSING BRANCH 2 SURFACE WINDS ETAC/USAF AIR WEATHER SERVICE/MAC PERCENTAGE FREQUENCY OF WIND 0 DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS) O RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 2100-2300 HOURS (L.S.T.) C C SPEED (KNTS) DIR. MEAN WIND SPEED 1 - 3 7 - 10 11 - 16 17 - 21 28 - 33 41 - 47 ≥56 0 4.7 NNE 7.0 3.3 2.0 1.4 0 NE 5.0 6.8 1.4 13.9 4.6 8.9 ENE 5.2 3.6 3.1 1.5 2.5 O £SE 1.4 1.8 1.2 1.4 SE 1.0 1.0 SSE 2.5 1.4 G S 3.8 4.0 1.7 5.0 6.3 16.7 6.4 SSW 3.7 2.9 7.1 1.8 SW 2.3 10.4 1.2 1.6 1.6 8.4 9 7.3 .9 .3 -2 WNW •3 0 7.0 NW .5 1.5 NNW 4.2 1.0 10.1 4.8 100.0 TOTAL NUMBER OF OBSERVATIONS 885

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SURFACE WINDS

TOTAL NUMBER OF OSSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

	-				ALL WI	ATHER			 			HOUR	3 (1
					CON	DITION							
SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	Γ
N	1.1	.7										1.8	Γ
NNE	2.2	3.0	2.4	1.0	.4		L					6.9	Ĺ
NE	4.9	3.7	.8	•1								9.6	
ENE	4.5	1.3	.4				L					6.1	Ĺ
E	2.4	.5										2.9	Г
ESE	1.8											1.8	
SE	•6	• 1										.7	
SSE	1.2	• 1										1.3	L
\$	4.5	3.9	2.9					<u> </u>				13.1	L
SSW	3.3	4.8	6.1	3.1	•7			<u> </u>				18.1	L
SW	1.3	2.4	3.1	4.5	1.2	. 6		<u> </u>			L	13.1	L
WSW	.8	1.0	2;3	1.6	. 8			<u> </u>	<u> </u>		<u> </u>	6.5	L
w	- 66		1.2	.5	.4			ļ	<u> </u>			3.1	L
WNW	-2	1.0	.6	•1		<u> </u>		<u> </u>	<u> </u>			1.9	Ļ.
NW	<u></u>	101	.6		L	ļ		ļ	<u> </u>			1.8	L
NNW	.4	- 4	•1	-1				<u> </u>	<u> </u>			1.0	L
VARSL	1.4		Ļ	Ĺ	L	Ĺ,	ļ					1.4	L
CALM	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	6.6	
	2, 2	.24 2	20.6	12.4		١ ,		{	1	1	ł	100-0	1

USAFETAC FORM 0-8-5 (OL. A) previous solitions of this form and desouth

0 DATA PROCESSING BRANCH SURFACE WINDS 2 ETAC/USAF AIR WEATHER SERVICE/MAC PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS) 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 0300-0500 HOURS (LS 7.) 0 0 SPEED (KNTS) DIR, MEAN WIND SPEED 1 - 3 7 - 10 11 - 16 17 - 21 C 3.1 4.4 NNE 7.9 5.8 0 NE 10.0 4.4 ENE 5.5 2.6 . 8 4.0 2.6 1.8 1.9 3E SSE 10.5 \$ 2.6 3.4 SSW . 9 8.7 5.4 20.5 6.8 3W 2.3 3.0 3.8 1.0 12.9 9.7 WSW 7.1 7.2 2.3 1.3 9.5 1.0 1.1 4.0 WNW 7.8 NNW .6 6.0 VARBL 1.6 0 TOTAL NUMBER OF OBSERVATIONS 874

USAFETAC FORM 0-8-5 (OL A) MEVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

SSW

WSW

WNW

NW

YARBL

2

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SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

35032 STATION	RHEI	N-MAIN	APT GE	RMANY	FRANKE	URT	67-	-76		TEARS				ONTH.
*******			2.2			ALL W	EATHER							-0800
		_					LADS						HOUR	(L.S.T.)
		-				coi	MOITION							
		_												
		1							 -	Γ			1	
	SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
	N	1.2	.3	.7	.2								2.4	5.0
	NNE	1.5	1.5	2.4	.9								6.3	6.7
	NE	4.1	3.9	.9	.5								9.4	4.5
	ENE	4.3	2.1	.8			1						7.1	3.5
	E	3.3	.6	•6									4.5	2.8
	ESE	1.4	.3										1.7	2.1
	SE	.7	•1										-8	1.7
	SSE	.5	.3										.8	2.6
	3	2.8	3.7	3.7	1.2	•1							11.4	6.1

TOTAL NUMBER OF OBSERVATIONS

6.9

3.1

1.4

1.0

2.3 4.8

100.0

6.6 5.6

6.4

869

ile.

USAFETAC FORM 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM AND DESOCRETE

1.8

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SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

RHEIN-MAIN API GERMANY/FRANKFURT 67-76

	-	 .			ALL WE	ATHER				′		-0900	14.
	-				CON	DITION							
П													
SPEED (KNTS) DIR.	1.3	4-4	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	M W SP
И	.7	- 5	.5	. 4								2.0	
NNE	А		1.6	1.8								5.0	
NE	1.9	3.5	1.4	9								7.7	Ī
ENE	3.6	2.0	. 8									6.4	
E	2.3	1.9	1.1									5.3	
ESE	- 9	8	.1									1.9	
SE	. 8	-1	. 1									1.1	
SSE	-2		-1									1 .4	
\$	1.8	2.6	3.8	1.9								10.0	
SSW	1.4	4.3	8.2	6.6	.4	. 1						21.0	
SW	1.5	3.5	5.3	5.3	2.5	• 7						18.8	
WSW	1.2	1.8	1.2	2.1	. 4	•1						6.7	
w	. 4	.5	1.6	2.0	.1	. 2						4.8	
WNW	- 2	2	.7	1	1							1.4	
NW	. 2	a Å	ż	. 4								1.2	
NHW			. 1									8	
VARBL	2.0	2										2.2	
CALM	$>\!\!<$	$\geq \leq$	$\geq \leq$	\times	\times	\times	$\ge $	$\geq \leq$	$\geq \leq$	$\geq \leq$	\ge	3,4	
	20.4	23.4	26.8	21.3	3.4	1.2						100-0	
				•			-		TOTAL NU	MAER OF OBSI	ERVATIONS		

USAFETAC FORM 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

35032 RHEIN-MAIN APT GERHANY/FRANKFURT 67-76

SURFACE WINDS

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

					ALL WI	ATHER)=140 (L.S.T.)
	_				CON	DITION							
SPEED (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	.6	1.3	•2	•6								2.7	6.
MME	1.2	1.5	2.4	1.4	•2							6.7	8.
NE	1.3	1.9	1.9	. 5								5.6	6.
ENE	1.2	2.0	.7	-1								4.0	4.
E	2.0	1 3	1.5	•1						i		5.0	4.
ESE	.5	1.3	- 2									204	4.
SE	.4	•2	,,,,						 	 		•6	3.
SSE	.9	.6										1.5	3.
\$	2.0	2.6	2.4	1.5	.5							9.0	7.
SSW	1.7		6.7	5.7	.8							19.5	.9
SW	.31	2.1	5.4	5.9	2,4	• 5						17.1	11.
WSW	1.4	1.1	1.7	3.0		5						8.6	10.
W	.4	1.1	3.0	2.8			•1					7.9	10.
WNW	- 4	•2	1.8	.9		:						3.3	8.
NW	.1	.4	.7	•1		;	·					1.3	7.
HHW	.1	•2										•4	4.
VARSL	2.0	•1			,							2.1	1.
CALM	$\geq \leq$	$\geq <$	\geq	$\geq <$	$\geq <$	$\geq \leq$	\geq	$\geq \leq$	$\geq \leq$	\geq	$\geq \leq$	2.6	
	16.9	22.6	28.6	22.7	5.3	1.2	.1					100.0	!

USAFETAC POMM O-8-5 (OL A) PREVIOUS SOUTIONS OF THIS FORM AND OSCOLETE

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PHEIN-MAIN APT GERHANY/FRANKFURT

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

					•	ATHER.					***	-1500	\$ (L.S.1
					COR	SITION						1	
	_					1							
						•							
SPEED , (KNTS) DIR.	1.3	4-6	7 - 10	11 - 16"	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	ME. Wil
N	1.8	1.1	8	- 6		- -		l			 -	4 2	-
NNE	2.5	2.5	2.0	. 0	-,2						4	4.2	
NE	2.1	1.6	1.3	2					<u> </u>			8.1 5.2	
ENE	2.8	1.9	- 4								 		
£	2.8	2.7	- 4								 	5.1	
ESE	1.41	1.2										5.9	3
SE		- 5		,								2.6	3
SSE	1.2	7									-4	1-6	2
S	2.6	3.5	3.6	1.4								1.9	3
SSW	1.3	2.8	5.5		2 8						 		
sw	1.1	2.0	2.8	4.7 0.0								14.7	فــــــ
WSW	1.2	3.4	2.5	2.9	2.2							14.2	_'n
w		1 1	1.0	2.0	4+2		,					10-2	
WNW			***	1		2						5.9	9
NW		- 6	6	3								1.9	8
NNW	,			-2	 †							1-4	7
VARSL	1.0								 			7	
CALM	><1		>	\leq			52					3.1	2
	74.2								\leftarrow	$\leq \geq$		301	-
	-24-2	25.6	22.9	-18-81	4.9	4		l				100.0	7

USAFETAC AL 44 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ANE OBSOLET

0

SURFACE WINDS

1800-2000

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

		·-·	··		CON	PITION		·					
	_												
SPEED KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	S
N	2.4	.7	• 5	•2								3.8	
NNE	2.4	2.0	1.6	•6	•2							618	
NE I	3.0	3.5	.8	.5								8.3	
ENE	3.2	1.6	•2									5.1	
E	3.8	2.7	•2									6.7	
ESE	1.7	. 8										2.5	
SE	.6	.7									1	1.3	
SSE	1.5	.3										1.8	
5	2.7	4.4	2.3	2:0	1							11.4	<u>_</u>
35W	2.5	3.9	5.6	5.1	. 5			l				18.6	
sw	1.4	2.4	2.9	6.0	. 8					i		13.5	
wsw	.7	2,1	2.2	1.4	.3	3						. 7.1	
w	3	1.0	1.2	1.0	1			L				3.7	L
WHW		6	7	2	3							1.8	
NW	<u> </u>	21	•2									5	
NNW			•1	L	•1	<u></u>		<u></u>				.9	_
VARBL	.9	.3										1.3	ᆫ
CÁLM	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	4.7	L
	28.0	27.9	19.5	17.0	2.5	.3						100.C	

USAFETAC 10-8-5 (OL. A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

0

SURFACE WINDS

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

032 B	RHEIN-MAIN APT GERMANY/FRANKFURT 67-76												- —-Ŋ	ONTH
						ALL ME	ATHER.						-5100	=2300 ((37.)
						ÇOR	DETION				·			
(Ki	EED NTS)	1.3	4-5	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
<u> </u>	н	1.4	.6	,2	•1						1		2.3	3,7
N	INE	2.9	3.4	1.9	. 7	4						1	9.2	57
1	NE	4.4	3.6			-			<u> </u>				8.4	3.7
E1	NE	3.6	1.4										5.6	3.3
[`	E.	3.0	.9	1							1		4.1	2.9
E	SE	2.2	- 8										3.0	2,5
	SE	_1.1	. 2								j		1.3	1.9
3	SE	1.1	-1	4									1.3	2.2
	S	4.7	_4.1	4.0	1.4	. 2					 	1	14.4	5.9
S	SW	1.21	4.7	6.0	4.6	.6							16.8	8.6
s	w i	1.3	2.1	4.6	4.0	.7							12.7	9.5
w	/SW	1.3	1.9	2.9	1.3		2	1					8.3	8.7
	w i	.7	2	- 4	5		1						2.2	9.2
W	W	i		- 4	- 4						,		1.3	7.8
N	W.	·ż	.6	1	5								1.4	7.2
N	NW	. 5	- 46	.1									1.2	4.2
VA	LR8L	1.6							i	1			1.6	1.5
C	ALM	$\geq \leq$	$\geq \leq$	> <	\times	$\geq \leq$	\times	\times	$\geq \leq$	\geq	\geq	><	4.9	
									1					

USAFETAC FORM 0-8-5 (OL A) PREVIOUS CONTIONS OF THIS FORM ARE DESOLETE

35032 RHEIN-MAIN API GERMANY/FRANKFURT 67-76

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

					ALL WE	ATHER						OOO C	1-0-2 (L.E.T.)
	_				CON	BITION							
SPEED (KNIS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 · 40	41 - 47	48 - 55	≥56	×	MEA WIN SPEE
N	.8	.6	•2									1.6	3
NNE	1.4	2.7	1.5	. 9								7.0	6
NE	4.2	4.9	2.1	9								12.3	- 5
ENE	3.2	4.2	. 3	• 1								8.3	4
E	1.6	2.6	.1									4.3	
ESE	1.5	5										1.9	2
SE	1.0											1.0	
SSE	9	3										1.3	
\$	3,3	4.5	2.7	9								11.4	
ssw	2.4	4.8	7.9	3.9	3							19.3	
sw	1.6	2.2	3.1	3.4	.9	1						11.3	
WSW'	8	1.5	1.5	1.8	. 3							6.1	
W	8	7	1.0	. 9								3.4	
WNW		5	.7	- 3								1.7	
NW	2		3	3	1	1						1.1	_11
NNW	3	6										9	
VARBL	1.1											1.1	
CALM	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	\geq	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	5.7	
	25.5	30.5	22,4	13.6	1.8	5						100.0	_6

USAFETAC FORM 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE DESOLETE

SURFACE WINDS

TOTAL NUMBER OF OBSERVATIONS

901

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

		COMBITION											
								<u> </u>					
SPEED (KNTS) DIR.	1 - 3	4-4	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	
N	.3		- 4									1.	
NNE	1.4	2.7	2.1	•7								6.	
NE	4.6	5.4	1.4	.8	. 2							12.	
ENE	4.6	3.9	1.0									9,	
E	3.0	1.0										4.	
ESE	1.6	. 4	. 1									2.	
SE	.7											•	
SSE	1.0											1.	
\$	3.4	4.6	2.7	- 4	2					<u> </u>		11.	
\$5W	2.1	5.0	7.2	4.9	,6							19.	
SW	2.1	2.2	3.4	3.9	.4							12.	
wsw	6	9	1.6	1.2	.7							4.	
W		6	1.2	•7	2	2						3.	
.yhw		3	. 9									2.	
NW	 	6	- 4							ļ		1.	
NNW	6		4									1.	
VARBL	- • •	~•}							k		<	•	
CALM		$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	6.	
										-			

USAFETAC $\frac{\text{FOR} r}{\text{JR 64}}$ 0-8-5 (QL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

KHETI	N-MAIN	AP I GE	I MARE	FRANKF	URI	67=	76		EARS			- ¦	EC HONTH
					ALL WE	ATHER-						-0600	-0300
					CON	DITION							
SPEED (KNTS) DIR.	1.3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 · 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	7	2	. 3	- 1								1.3	5.6
NNE	1.8	1.8	2.4	Ŷ								-6.8	6.5
NE	4.0	4.3	2.5	. 8								11.5	5.2
ENE	4.3	3.5	1.0		-							8.7	3.9
E	2.8	1.1	. 3									4.3	3.3
ESE	1.8	.6										2.4	2.5
SE	. 7	-1								1		. 8	2.3
SSE	1.3	. 3						i —		ī —		1.7	2.5
S	3.0	3.7	3.1	1.3		1						11.3	6.2
SSW	2.1	5.4	7.5	5.5	.7							21.2	8.3
SW	1.8	2.7	3.8	3.8	1.0							13.1	9.0
WSW	8	. 9	1.1	1.2	8.							4.8	9.7
w	1	3	. 8	. 7	2					Ī		2.7	10.5
WNW		2	. 8	. 3								1.3	9.2
NW		. 8										1.2	7.7
NNW	. 3		1									7	4.3
VARBL	9	1										1.0	1.9
CALM	$\geq \leq$	$\geq \leq$	\times	$>\!\!\!<$	$\geq \leq$	$\geq \leq$	\times	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	5.6	
	26.4	26.2	23.7	15.1	2.7	,				I		100-0	6.3

USAFETAC TORM 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

2

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

	-				ALL WE	ATHER						0900	-110
					con	DITION			 -				
SPEED (KNTS)	1.3	4.6	7 - 10	11 - 16	17 - 21	22 · 27	28 - 33	34 · 40	41 · 47	48 - 55	≥56	*	MEA WIN
DIR.	,	4.0	7 - 10	11 - 10	17 - 21	22 · 2/	26 - 33	34 . 40	****	70.33	230	~	SPEE
N	•7	.8	•1	•1								1.7	4.
NNE	1.8	1.8	1.8	1.6								6.9	6
NE	2.7	2.8	3.1	1.0								9.6	6.
ENE	3.8	4.6	•6									8.9	3
E	2.6	1.7	.8									5.0	3
ESE	1.3	.9	• 1									2.3	3.
SE	.7	7	1									1.5	3
SSE	1.1	. 4	•1				<u> </u>					1.7	3
S	2.2	2.7	2.8	. 8	.1				<u> </u>			9.6	6
SSW	1.6	5.1	9.2	3.9	1.1							20.9	8
sw	1.3	3.5	4.7	5.6	.6		.1					15.7	9
WSW	1.0	- 9	2.1	1.9	.6							6.6	9.
w	-1	1.1	. 8	•6	.1							2.7	8
WNW	1	1	. 3	8					L			1.3	9
NW	1	.7	1.0	.3								2.1	7
NNW		.2	. 3	.1								• 7	8
VARBL	1.0	, Ž										1.2	2.
CALM	><	><	> <	><	><	><	><	$\triangleright <$	$\triangleright <$	\geq	><	2.6	
	22.1	28.1	27.9	16.6	2.5	. 1	. 1					100.0	6

TOTAL NUMBER OF OBSERVATIONS

89

USAFETAC JUL 64 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLET

SURFACE WINDS

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

RHEIN-MAIN APT GERMANY/ERANKEURT 67-76

					ALL WE	ATHER						1200	1-140 (L37)
					CON	PITION							
SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WINE SPEEC
N	.7	- 6	.6	.1								1.9	5.
NNE	1.4	1.8	1.6	2.4								7.1	7.
NE	2.0	3.3	2.9	1.6								9.9	_6.
ENE	- 2.4	4.2	1.9	. 7								8.7	_5,
E	2.0	3.2	- 6	.1								5.9	4.
ESE	1.0	1.6										2.6	3,
SE	. 6	. 1										.7	2.
SSE	2	2										. 5	4.
\$	3.8	1.9	2.8	- 6	1							7.3	_6.
SSW	1.2	4.9	7.4	4.8	. 3							18.6	8.
SW	.2	2.8	6.3	4.5	1.1	- 1						15.2	10.
WsW	1.1	1.5	2.0	2.7	1.2	. 2						8.8	io.
W	.2	.1	1.2	1.0	. 3							2.9	10.
WNW	1	- 2	1.2	- 2								1.8	8.
NW		. 5	1.1	.7	.2							2.5	10.
NNW	.2	.3	- 3	.1	•1					T		1.1	7.
YARSL	1.1	.2				T		1		1		1.4	2.
CALM	$\geq \leq$	$\geq <$	\geq	\geq	> <	$\geq \leq$	\geq	\boxtimes	\geq	\geq	$\supset \subset$	3.1	
	34.4	27.4	ı	i	2.5	2						100-0	7.

USAFETAC $_{\rm JUL~64}^{\rm FORM}$ 0-8-5 (QL A) previous editions of this form are obsolete

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

35032 STATION	RHEI	N-MAIN	APT GE	APT GERMANY/FRANKFURT 67-76 STATION MARE TEARS											
						ALL WE	ATHER						1500 HOUSE	-1700 (Lis.T.)	
						COM	DITION								
	SPEEC (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED	
	N	. 9	.9	•2	.3								2.3	5.1	
	NNE	1.4	1.8	2.9	1.8								7.9	7.5	
	NE	3.7	4.1	1.7	- 4								9.9	4,8	
	ENE	3.7	2.6	.9									7.1	3.7	
	E	3.7	3.3	.4									7.4	3.7	
	ESE	1.1	1.0	• 2									2.3	3.7	
	SE	.8	•2										1.0	2.8	
	SSE	.9	.2										1.1	2.4	
	5	2.3	4.2	2.4	. 4								9.4	5.4	
	SSW	1.1	4.2	7.9	4.8	2	<u></u>		<u> </u>				18.2	8.7	
	SW	1.4	3.4	4.3	4.9	6					ļ		14.7	8.8	
	WSW	1.0	1.2	1.6	2.0	6	L	<u> </u>	<u> </u>	<u> </u>			6.3	9.4	
	<u> </u>	6	1.0	. 9	8_	4				<u> </u>	ļ		3.8	9.3	
	WNW	1	2	_1.1									1.9	8.8	
	NW	-1	7	1.3	2		ļ		ļ	 	ļ		2.3	7.7	
	NNW	2		4	2		ļ						1.4	6.1	
	VARBL	7_			Ļ,		Ļ	Ļ	Ļ	Ļ,	ارا			1.8	

TOTAL NUMBER OF OBSERVATIONS 901

USAFETAC FORM 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

C

SURFACE WINDS

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

922	- RHEI	N-MAIN	APT GE	BWV NA \	FRANKI	URT	67	76		TEADS) E C
		•				ALL WE	ATHER			 			-1800 HOVE)=2000 (L17.)
						CON	BITION							
	SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
	N	А	6	8									2.2	5.4
	NNE		3.2	3.7	1.2	2							9.8	7.1
	NE	2.2	4.0	2.0					<u> </u>				10.0	5.6
	ENE	3.6	1.9	3									5.9	3.5
	E .	2.8	3.1	. 1	1								6.1	3.6
	ESE	1.9	6									İ	2.5	2.5
	SE	1.1	- 2								<u> </u>		1.6	2.4
	SSE	1.1	- 3					<u> </u>					1.5	2.5
	5	3.4	3.5	3.1	-1						<u> </u>	<u> </u>	10.1	5.0
	SSW	2.5	444	7.2	5.2	5	1			<u> </u>	<u> </u>		19.9	8.4
	SW	1.1	3.3	3.4	4.1	. 7			L				12.7	9.0
	WSW	. 7	1.1	1.5	1.0	5	1				L		4.9	9.0
		↓ • ż	- 6	1.2		2		<u> </u>	<u> </u>	<u> </u>		ļ	3.1	9.4
	WNW		8.	7	3	2						<u> </u>	2.2	8.5
	NW_	1	3	1.1	1							L	1.7	7.5
	NNW	-1	3										5_	4.0
	YARSL	1.0											1.0	1.7
	CALM	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	$\geq \leq$	4.7	
				4										

USAFETAC FORM 0-8-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE DESOLETE

DATA PROCESSING BRANCH 2 SURFACE WINDS AIR WEATHER SERVICE/MAC PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS) RHEIN-HAIN APT GERMANY/FRANKFURT 67-76 ALL WEATHER SPEED (KNTS) DIR. MEAN WIND SPEED 5.1 .6 .6 NNE 2.8 6.4 6.5 2.4 4.8 ENE 8.0 4.7 3.8 Ε 0 FSE 2.0 SE SSE \$ 3.9 3.8 4.5 SSW 7.4 7.3 3.0 3.5 1.4 sw 2.8 و. WSW 4.7 1.2 1.1 9.5 WNW NW 1.7 9.0 NNW 1.0 5.2 YARSL 3.8 **(**)

USAFETAC JUL 40 0-8-5 (QL A), PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

TOTAL NUMBER OF OBSERVATIONS

888

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

35032	BHET	N-MAIN	APT GE	RMANY	ERANKE	Teu	67-	70,73	-76	TARS				NORTH
•		_				INSTRE	INFNT.				_		HOUR	(LS 7.)
				200_1	<u>ın 1400</u>	FT	VSBY	112 81	LOR HO	DRE.				
		-	AND/OF	VSBY	1/2_TC	2=1/2	<u> </u>	<u> (C.1., 20</u>	10_FT_0	JR_MORE				
3	SPEED! (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED

SPEED: (KNTS) DIR.	1 - 3	4-6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	*	MEAN WIND SPEED
N	1.1	6	3	0								2.0	3.7
NNE	2.4	2.1	1.7	1.0	1			İ				7.3	6.0
NE	5.6	4.8	1.2		- 0							11.8	4.0
ENE	5.1	3.5	.3			_						8.9	3.3
Ē	4.0	2.5	. 2									6.7	3.2
ESE	1.8	.7	• 1									2.6	2.7
SE	. 8	. 3										1.1	2.5
SSE	1.2	.4		0								1.6	2.5
\$	3.8	3.3	2.8	.3	0							10.2	5.0
SSW	2.7	5.0	6.1	2.7	.2							16.7	7.1
SW.	2.1	3.4	2.3	1.1	.3	0						9.2	6.6
WSW	1.6	1.4	.8	• 2	.1		•0					4.1	5.1
w	. 6	.7	. 3	. 1	• 0	•0			!			1.6	5.2
Wr W	. 3		- 2	.1								9	5.2
NW	2	-1	. 2	.0		-0					i	6	5.9
NNW	. 3	. 1	.1	4.1					1			. 6	4.9
VARBL	3.7	. 1							T		1	3.8	1.8
CALM	$\supset \subset$	$\geq \leq$	><	\times	\sim	> <	\times	\geq	\geq	\boxtimes	\boxtimes	10.3	
	37.3	29.5	16.5	5.8	. 6	1	-0					100-0	4.4

TOTAL NUMBER OF OBSERVATIONS 7416

USAFETAC TORM 0-8-5 (OL A) MEVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

PART D

CEILING VERSUS VISIBILITY

This summary is a bivariate percentage frequency distribution by classes of ceiling from zero to equal to or greater than 20,000 feet and as a separate class "no ceiling", versus visibility in 16 classes from zero to equal to or greater than 10 miles. Data are derived from hourly observations, and three sets of tables are presented as follows:

- 1. Annual all years and all hours combined
- 2. By month all years and all hours combined
- 3. By month by standard 3-hour groups

Due to the cumulative nature of this presentation, it is possible to determine the percentage frequency of occurrence for any given limit of ceiling or visibility separately, or in combination of ceiling and visibility. The totals progress to the right and downward. Ceiling may be determined independently by referring to totals in the extreme right hand column. Also, visibility may be determined independently by reference to the horizontal row of totals at the bottom of the page. The percentage frequency for which the station was meeting or exceeding any given set of minima may be decermined from the figure at the intersection of the appropriate ceiling column and visibility row. Several examples in the use of these tables are shown on pages 2 and 3 below.

U. S. Weather Bureau and Navy stations did not report ceilings within the range 10,000 feet and higher prior to January 1949. Summaries prepared from data for these stations using the earlier period and data subsequent to January 1949 will be modified to limit ceilings to 10,000 feet. Short periods of record prior to 1949 for these stations will be eliminated from the summary. For Air Force stations, the "no ceiling" category includes clear and scattered conditions, and ceilings above 20,000 feet for period through June 1948. Beginning in July 1948 for Air Force stations and January 1949 for USWB and U. S. Navy stations the "no ceiling" category consists of observations with less than 6/10 total sky cover and those cases where total sky cover is 6/10 or more, but not more than 1/2 of the sky cover is opaque.

Beginning in January 1968, METAR stations report visibilities to 6 miles and then greater than 6 miles. Thus, for METAR stations, the category equal to or greater than 10 miles is not printed in the tables, unless the summary was for a period ending before January 1968.

Continued on Reverse Side

12 c

EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

CEILING	i)						VIS	IBILITY (ST	ATUTE MI	LES)						
(FEET)	≥ 10	26	≥ 5	≥4	≥ 3	≥ 2 %	≥ 2	≥ 1 %	≥ 1%	≥ 1	≥ ¾	≥ %	≥ %	≥ 5/16	≥ ¼	≥ 0
NO CEILING	\langle				~											
≥ 1800 ≥ 1500			<u> </u>		91.0							<u> </u>	<u> </u>			92.6
≥ 1200 ≥ 1000		_														
≥ 900 ≥ 90 0																
≥ 700 ≥ 600																
≥ 500 ≥ 400										97.4				T		98.1
≥ 300 ≥ 200																
≥ 100 ≥ 0					95.4		96.9			98,3						100.0

- EXAMPLE # 1 Read ceiling values independently of visibility under column at right headed \geq 0. For instance, from the table: Ceiling \geq 1500 feet = 92.6%. Ceiling \geq 500 feet = 98.1%.
- EXAMPLE # 2 Read visibilities independently of ceilings on bottom line opposite ≥ 0 . From the table: Visibility ≥ 3 miles = 95.%. Visibility ≥ 2 miles = 96.9%. Visibility ≥ 1 mile = 98.3%.
- EXAMPLE # 3 To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling > 1500 feet with visibility > 3 miles = 91.0%.

874-**3006**

ADDITIONAL EXAMPLES

Values below minimums stated in the table may be obtained by subtracting the value given in the table from 100%.

Thus, to obtain the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles.

Likewise, the percentage of observations with ceiling < 500 feet and/or visibility < 1 mile is 2.6, obtained by subtracting 97.4 from 100.0.

EXAMPLE # 5 To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value in the table for the second set of limits. The difference will be the percentage of observations meeting the lower set of limits, but not meeting the higher set of limits.

The value 91.0 read from the table at the intersection of \geq 1500 feet with \geq 3 miles, subtracted from 97.4 read from the table at the intersection of \geq 500 feet with \geq 1 mile is equal to 6.4%. Thus; 6.4 percent of the observacions meet the criteria: "ceiling \geq 500 feet with visibility \geq 1 mile, but < 3 miles; or ceiling \geq 500 feet, but < 1500 feet with visibility \geq 1 mile."

Since these tabulations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal varietions of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.

D - 3

574-1796

TING VERSUS VISIBILITY

REEIN-MAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY STA	ATUTE MIL	S						1
(FEET)	≥10	≥6	≥5	≥4	≥ 3	≥2 ?	≥ 2	217	≥1 4	≥;	≥ 14	≥',	≥ -,	≥ \$ 16	≥ .	≥0
NO CEILING ≥ 20000		26.2 31.7	27.9 33.8			,	35.0		30.4	36.6	36.7	36.8	36.0		36.9 44.0	37.0
≥ 18000 ≥ 16000		31.8		37.C	40.5	41.5	42.5	43.8	44.1	44.4	44.5	44.5	44.6		44.7	44.8
≥ 14000 ≥ 12600		32.4 34.3	34.6		41.3	42.4 45.0	43.3	44.6	45.0 47.7	45.2 48.0	42.3 48.1	45.4 45.1	45.4 48.2	45.5 48.3	45.5 48.3	45.7 48.4
≥ 10000 ≥ 9000		37.0 35.2			47.6 49.3	ا م	49.9 51.6		53	52.0 52.8		51.2 54.3		52.4 54.1	52.4 54.2	52.5 54.3
≥ 8000 ≥ 7000		39.0 40.6	1		52.3	53.7	52.8 54.8	56.4	50.9	57.	ألى ``	55.2	57.4		57.5	
≥ 6000 ≥ 5000		43.1 46.0					5 8. 1	59.8 63.9	14.4	64.7	64.6	64.5	65.0	65.1	60.9 65.1	1 • 1 ن 2 • 5 • 2
≥ 4500 ≥ 4000		47.9 50.6	54.3	56.2 59.4	65.3	67.0		7' .5	71.0	71.4	71.5	71.4	71.7	71.8	67.7 71.8	
≥ 3500 ≥ 3000		52.5 55.0			71.4	73.4		17.3	75.0		78.5	78.	78.7		78.8	79.0
≥ 2500 ≥ 2000		56.9 58.9	63.4			79.8		84.4		85.5	70.1	<u>੪੭•</u> ਆ		0-0	70.U	80.1
≥ 1800 ≥ 1500		59.6	65.4	72.4	80.5	83.0		88.1		89.4	39.5	89.3		80.8	89.9	10.0
≥ 1200 ≥ 1000		61.0 61.2	66.2	73.7		85.3		91.0		92.4	92.6	92.7	92.8		92.9	77.]
≥ 900 ≥ 900		61.2	66.3	74.0	83.0	85.8	88.3	91.9	92.8	93.4	93.6	93.7			93.3	34.1
≥ 700 ≥ 600		61.2	66.4	74.2	83.4	85.4	89.0	92.8	93.8	94.5	94.7		95.0	95.l	94.5 95.1	300
≥ 500 ≥ 400		61.3	66.4	74.2	83.6	86.7	39.5	93.7	94.4	95.7	96.1	96.3	96.4		76.6	76.7
≥ 300 ≥ 200		61.3	66.4	74.2		36.8		94.2			97.3	97.4	97.9	99.2	08.3	35-5
(100 <u>ج</u> 0 ≤		61.3	56.4	74.2				94.2	95.6 95.6			97.7 97.8				99.2 130.0

CEILING VERSUS VISIBILITY

35022 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

VISIBILITY STATUTE MILES CERING 10.1 NO CEILING 11.0 15.2 19.1 10.0 17.6 18.1 18.6 18.8 809∪ ≤ 16000 20.4 22.5 23.1 23.7 ≥ 1C/000 ≥ 9000 24.2 26.6 27.3 27.9 25.3 25.3 27.3 28.6 29.2 29.0 ≥ 8000 ≥ 7000 14.3 16.4 19.3 23.3 24.9 26.2 28.7 29.5 30.1 30.3 15.1 17.3 20.3 24.4 26.1 27.3 30.1 30.9 31.6 31.7 10.5 18.8 21.9 26.4 28.2 29.6 32.4 33.3 34.1 34.5 ≥ 6400 ≥ 5000 34.0 ≥ 4500 ≥ 4000 33.1 34.9 38.1 39.1 40.0 40.4 36.1 36.2 41.8 42.9 43.5 44.2 ≥ 3500 ≥ 3000 33.5 39.0 47.2 50.3 52.7 57.7 59.0 60.2 60.7 37.7 43.8 53.1 56.8 50.7 45.0 60.2 60.7 ≥ 2500 ≥ 2000 ≥ 1800 ≥ 1500 39.4 45.6 55.6 59.4 62.5 58.1 69.6 70.9 71.4 72.7 41.9 45.0 59.4 63.6 67.1 73.4 75.0 76.5 77.0 77.6 C 52.0 63.9 68.8 70.4 77.2 79.1 80.6 81.2 81.9 82.2 C 52.0 63.9 68.8 72.2 79.5 81.5 83.1 83.6 84.3 85.0 85.4 52.2 83.8 84.3 85.0 85.4 2 52.6 65.0 69.8 73.7 81.5 83.6 85.1 85.7 86.4 86.8 2 52.6 65.0 69.8 73.7 81.5 83.6 85.1 85.7 86.4 86.8 ≥ 700 ≥ 600 52.6 65.1 70.2 74.3 82.4 84.6 86.2 36.8 87.5 88.0 88.4 88.5 88.7 52.9 65.8 70.7 74.8 83.2 85.6 87.3 88.1 88.5 89.3 69.8 89.9 90.0 53.0 66.0 71.1 75.4 84.2 86.8 88.7 89.5 90.3 90.9 91.5 91.6 91.7 84.2 86.8 88.7 85.1 88.0 90.1 300

USAF ETAC 111.64 0-14-5 (OL A) PREVIOUS EXITIONS OF THIS FORM ARE OBSOLET

CEILING VERSUS VISIBILITY

35032 RETIN-MAIN APT GERMANY/FRANKFURT 57-76

PERCENTAGE FREQUENCY OF OCCURRENCE

ALL

CEILING				····			VIS	BILITY STA	ATUTE MILI	ES						
FEET	≥10	≥6	≥5	≥4	≥3	≥2′7	≥2	≥1′2	≥1'.	≥1	ه ≥ ځ	≥'•	≥ ;	? 5 16	≥.	≥0
NO CEILING		17.0	18.7	22.0	26.5	27.8 33.0	25.7	30.2 36.1	30.5		37.0	31.0	31.i	31.1	31.1	1.2ر 7.2ر
≥ 18000 ≥ 16000	i	20.3	22.4	26.1	31.6	33.1 33.1	34.3	36.2	36.6 30.6	37.0	37.1	37.1	37.2 37.2	37.3	37.3	7.4 7.4
≥ 14000 ≥ 12000		20.7	22.8	25.6	32.2	33.7	34.9	36.9	37.3	37.7	37.8	37.9	37.9	38.0	38.0	38.1 40.4
≥ 10000 ≥ 9000		23.1	25.8		36.6	39.3	34.5	41.6	42.1 43.2	42.6 43.6	42.7	42.7	42.8	42.8	42.8	43.0
≥ 8000 ≥ 7000		23.8	26.0	31.2		37.3	41.0	43.3	43.€	44.3	44.4	44.4	44.5	44.5	44.5	44.7
≥ 6/000 ≥ 5000		26.1	29.2	34.2	41.4	43.2	44.5	47.0	47.5	48.0	48.2	48.7	40.3	48.3 52.2	48.3 52.2	48.5
≥ 4500 ≥ 4000		30.7		39.8	48.0	49.9 54.2		54.1	54.8 59.5	55.3	55.5		55.6	55.6 60.3	55.7	55.3
≥ 3500 ≥ 3000	 	36.4		46.5 50.3		57.8	57.6	62.5	68.3		54.0 69.1	64.0	64.1	64,1	64.1	64.3 09.4
≥ 1 √0 ≥ 2000		41.6				66.8		72.6 78.1	73.5 79.0			74.4 80.0	74.5	74.5 80.2	74.5 80.2	20.3
≥ 1800 ≥ 1500		45.4			70.2 72.9	73.6			81.4		82.4	82.4 86.3	82.5 86.4		82.6 86.5	32.7 36.6
≥ 1200 ≥ 1000		46.9 47.1		62.0		78.2	92.7	86.7 85.1	87.9 89.4				89.2 90.9	89.3	89.3 90.9	υ9•4 91•1
≥ 900 ≥ 300		47.1	,	T V	75.6 75.8	79.6		88.8 89.2	90.0 90.6		91.3	,	91.5 92.2	91.6 92.2	91.6 92.2	91.7 92.4
≥ 700 ≥ 600		47.2	1	62.5			83.9 84.1	89.9			92.8 93.5			93.2 93.9	93,2 93,9	94.0
≥ 50° ≥ 400		47.3	53.4 53.4	62.5 62.5		80.5 80.6	84.4 84.6			93.9 94.5				95.7	94.7 95.7	94.9 95.8
≥ 300 ≥ 200		47.2 47.3	53.4	62.5 52.5	76.3	80.6 50.6		91.7 91.7		95.7	96.6	97.1	\$7.7	98.1	98.2	
≥ 100 ≥ ¢		47.3		62.5			84.7 84.7	91.7 91.7	93.7 93.8		96.7 96.8	97.2	97.8 98.2			99.2 100.0

(FROM HOURLY OBSERVATIONS)

TOTAL NUMBER OF OBSERVATIONS

6461

USAF ETAC 10164 0-14-5 (DL A) MENOUS EDITIONS OF THIS FORM ARE OBSOLE

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT

67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

Al.L

CEILING							VIS	BILITY ST	ATUTE MILE	· S						
(FEET)	≥10	≥6	≥5	≥4	≥3	≥2 ′2	£ 2	≥1 ?	≥114	≥1	≥,4	5,⁵	≥ ⁄.	≥ 5 16	≥ .	≥0
NO CEILING ≥ 20000		25.2		30.9	34.9	36.0 43.7	36.6	37.4	37.6 45.3	37.7	37.7 45.9	37.9 46.7	37.8 46.0	37.8 46.0	37.8 45.0	
≥ 18000 ≥ 16000		30.0	33.2	37.5	42.4	44.0	44.7	45.8	40.0	46.2	46.2	46.2	46.4	45.2	40.3	46.3
≥ 14000 ≥ 12000		30.5		33.1	43.1 45.2	44.7	49.5	46.5	49.0	46.9 40.1	46.9 49.1	46.9	46.9	47.0	47.0	47.0
≥ 10000 ≥ 9000		33.7	37.2 38.1	42.2	40.0	49.8 51.0	50.7	51.9 53.2	52.2	52.3 53.6	52.4	52.4	52.4 5ء.7	52.4 53.7		
≥ 8000 ≥ 7000		35.0 36.0	38.7	43.8	49.8		52.6	53.9	54.2 55.6	54.3	54.3	54.4	54.4	54.4	54.4	
≥ 6000 ≥ 5000		38.3	42.3 45.7	47.7 51.5	54.2 58.3		57.1	58.4 62.8	58.7	59.0	59.0	59.0	59.0	59.1 63.5	59.1	59.1
≥ 4500 ≥ 4000		43.3	47.9 52.1	54.1 58.6	61.1	63.2	64.3	65.7	66.0	66.3	66.4	66.4		66.4	66,5	
≥ 3500 ≥ 3000		49.9 53.1	55.4 59.0	62.4	70.7	72.9 77.7	74.2	75.P	76.2	76.4	76.5	76.4	- 1	76.6	76,6	
≥ 2500 ≥ 2000		55.6 57.9		70.0 73.1	79.6		83.7	85.6		\$6.3 90.6			86.4 90.8	90.8		
≥ 1800 ≥ 1500		58.7	65.1 66.5	74.3 76.0	84.6 86.6		89.2 91.5	91.3	91.7	92.1	92.2		92.3	92.3	92.3 94.7	
≥ 1200 ≥ 1000		60.3		76.8 76.9	87.7 88.1	90.7	92.7	95.0	95.5 96.4	96.9		96.7 97.1	96.2 97.1	96.2	96.2 97.2	96.3 97.2
≥ 900 ≥ 800		60.4	67.2	77.0 77.1	88.2	91.8	93.7 94.1	96 • 1 96 • 7	96.6 97.3	97.2 97.8		97.4 98.0	97.4 98.0	97.4		97.5 98.1
≥ 700 ≥ 600		60.4	1	77.1 77.1	88.5 88.6	92.1	94.4	97.0 97.2	97.5 97.8	98.4	98.6	98.3 98.5		98.3 95.7	98.4 98.7	(
≥ 500 ≥ 400		60.4	67.2 67.2	77.1 77.1	88.6	92 • 1 92 • 2	94.5 94.6	97.3	98.0 98.1	98.6 98.8	98.8 99.1	98.°	98.9	98.9 99.2	99.2	99.3
≥ 300 ≥ 200		60.4	67.2	77.1	88.7 88.7	92.3	94.8 94.8	97.7 97.7		99.1 99.1		99.4	99.6 99.6		99.7	
≥ 100 ≥ 0		60.4	~		88.7		94.8	97•7 97•7	98.3 98.3	99.1 99.1				99.7 99.8		99.9 100.0

TOTAL NUMBER OF OBSERVATIONS

694

USAF ETAC 101.64 0-14-5 (OL A) previous editions of this form are desolet

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRAMKFUPT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY (STA	TUTE MILE	S						
FEET	≥10	≥6	≥5	≥ 4	≥3	≥2 ?	≥2	درا ₹	≥1′4	≥1	≥ 14	≥'.	≥ ';	≥5 16	≥ .	≥0
NO CEILING ≥ 20000		38.0 45.4	39.5 47.4		44.). 52.9	44.4 53.4	44.7	45.1 54.4	45.3 54.6	45.4 54.7	45.4 54.7	45.4	45.4 54.8	45.4 54.8	45.5 54.6	45.5 ٩.٩c
≥ 18000 ≥ ₹6000		45.6 45.6	47.6 47.6			53.6 53.6	53.9 53.9	54.6 54.6	54 • 8 54 • 8	54.9 54.9	54.9 55.0	54.9 55.0	55.0 55.0	55.0 55.0	55.0 55.0	0.5د 1.5د
≥ 14000 ≥ 12000		46.4	48.4 50.5	51.5 53.7	54.1 56.4	54.6 56.9	54.9 57.3	55.6 58.0	55.8 58.2	55.9 58.3	55.9 58.4	55.9 58.4	55.9 58.4	55.9 55.4	55.9 58.4	0 • 6ر 8 • 5
≥ 10000 ≥ 9000		51.1 52.6	53.6 55.1	56.9 58.5	59.8 61.5	60.4 62.1	60.8 62.5	61.6 63.3	61.8	61.9 63.6	61.9	61.9	61.9 63.6	61.9	62.0 63.7	62.0 63.7
≥ 8000 ≥ 7000		53.5 55.3	56.1 57.9	59.7 61.6	62.7 64.8	63.3 65.5	63.7 65.9	64.5	64.7	64.9 67.0	64.9 67.1	64.° 67.1	64.9	64.9	54.9 67.1	აშ•0 ა7•2
≥ 6000 ≥ 5000		58.0 60.8	60.8	64.7 67.8	68.0 71.3	68.7 72.1	69.1 72.6	70.0 73.5	70.2 73.7	70.3 73.9	70.4	70.4	70.4 73.9	70 • 4 74 • 0	70.4 74.0	70.5 74.0
≥ 4500 ≥ 4000		67.0	66.2 70.1	70.4 74.5	74.0 78.2	74.8 79.0	75.3 79.6	76.2 80.6	76.4 80.6	76.6 81.0	76.6 81.0	76.6 81.0	76.6 81.0	76.7 81.1	76.7 81.1	76.7 o1.1
≥ 3500 ≥ 3000		09.2 72.3	72.5 75.8	77.0 80.7	81.0 84.8	81.8 85.7	82.4 86.3	83.4 87.4	83.6 87.7	83.8 87.9	83.9 88.C	85.0 88.0	83.9	88.9	84.0 88.0	54.0 58.1
≥ 2500 ≥ 2000		75.1 77.2	78.7 81.0	83.9 86.5	_ :	89.1 92.1	89.7 92.8	90.8 94.0	91.0 94.2	91.3 94.5	91.3 94.6	91.3 94.5	91.3 94.6	91.4 94.6	91.4 94.6	91.5 94.7
≥ 1800 ≥ 1500		77.7 78.5	81.5	88.1	93.1	92.9 94.2	93 .5 95 . 0	94.7 96.2	95.0 96.5	95.3 96.8		95.2	95.4 96.9	95.4 96.9	95.4 96.9	95.5 97.0
≥ 1200 ≥ 1000		78.6 78.7	82.6 82.7	88.6	93.9	94.8 95.2	95.5 95.9	96.9 97.3	97.2 97.6	97.5 97.9	97.6 98.0	97.6 98.0	97.6 98.0		97.6 98.1	97.7 98.2
≥ 900 ≥ 800		78,7 78,7	82.8 82.8	88.7	94.2	95.3 95.5	96.1 96.3	97.4 97.7	97.8 98.1	98.1 98.4	98.2 98.5	98.2 98.5	98.2 98.5	98.5		98.6
≥ 700 ≥ 600		78.7 78.8		88.7	94.4			97.9 98.1	96.2 98.5	98.6 98.9	98.6 99.0	98.7	98.7 99.0			99.8 99.1
≥ 500 ≥ 400		78.8	82.8	88.8	94.4		96.7	98.3 98.4	98.7 98.8	99.1 99.2	99.2 99.3	99.3	99.3 99.4	99.4	99.5	99.4 99.6
≥ 300 ≥ 200		78.8 78.8	82.8	88.8	94.4	95.8	96.8	98.5	98.9		99.6	99.6	99.6	99.7	99.8	
≥ 100 ≥ 0		78.8			1 1 7	95.8 95.8				99.5 99.5		99.7 99.7	99.7	99.8		99.9 100.0

USAF ETAC JUL 44 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FOR

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-70

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY STA	ATUTE MILI	ES:			· · · · · · · · · · · · · · · · · · ·			
(FEET)	≥10	≥6	≥5	≥4	≥3	≥21⁄7	≥2	≥172	≥1'4	≥1	≥ 14	≥ '•	≥ 2	≥5 16	≥ '•	≥0
NO CEILING ≥ 20000		33.8		37.3		39.3	35.6	39.9	40.0		40.1	40.1	40.1		40.1	
		44.0				51.1	51.4		51.9		51.9	51.9			52.0	
≥ 18000 ≥ 16000		44.2	46.2	48.8		51.3	51.6	52.7	52.0	52.1	52.1	52.1	52.1	52.1	52.1	25.5
		44.2	46.2			51.3	51.6	52.7	52.1	52.1	52.1	52.1	52.1	52.1	52.1	2 • 2ر
≥ 14000 ≥ 12000		45.6			52.4	52.8	53.1	53.5	53.6	53.7	53.7	53.7	53.7	53.7	53.7	33.8c
<u> </u>		49.1	51.4	54.3		57.0	57.3	57.7	57.8		57.8	<u>57•°</u>	57.8		57.9	57.9
≥ 10000		52.6		58.3		61.6	61.9	62.4	62.5	62.5	62.6	62.4	62.6	52.6	62.6	02.6
II		54.6		60.8		64.2	64.5	<u>65.7</u>	65.1	65.2	65.2	65.2	65.2	65.2	65.2	05.3
≥ 8000		55.6		1		65.5	65.9	66.5	66.6	66.6	66.7	65.7	66.7	66.7	56.7	06.7
		58.0				68.5	69.0	69.5	69.6		69.7	64.7	69.7	69.8	49.6	
≥ 6000 ≥ 5000		61.4	64.8			72.9	73.4	73.9	74.0	74.1	74.1	74 • 1	74.1	74.2	74.2	74.2
ļ———		64.8				77.1	77.7	78.4	78.5		78,6	78.4	78.6	78.6	78.6	78.6
≥ 4500 ≥ 4000		66.9		75.3		79.7	80.3	81.0	81.1	81.2	81.2	81.2	81.2		81,2	
		70.0		78.9		83.6	34.3	85.0	85.2		85.3	85.3	85.3		85.3	4 • 5 ن
≥ 3500 ≥ 3000		72.0	76.1	81.1	85.	86.0	86.5	87.4	87.5		87.7	87.7	87.7	87.7	87.7	87.8
		74.6				89.4	90.2	91.0	91.2		91.3	91.4	91.4	91.4	91.4	91.4
≥ 2500 ≥ 2000		76.0	80.5			91.3	92.2	93.0	93.2		93.4	93.4	93.4	93.4	93.4	93.5
		77.1	8:.7	87.2		92.8			94.7	94.8		94.9	94.9	94.9	94.9	
≥ 1800 ≥ 1500		77.5		87.7		93.5	94.4	95.3	95.5	95.6	95.6	95.7	95.7	95.7	95.7	95.7
		78.1		88.5		94.5	95.4	96.4	96.6		96.7	96 • P	96.8		96.8	
≥ 1200 ≥ 1000		78.2				95.0	95.9	96.9	97.1	97.2	97.2	97.3	97.3	-	97.3	97.3
		78.2		88.8		95.2		97.2	97.4			97.6	97.6		97.0	
≥ 900 ≥ 800		78.2		88.9		95.3	96.2	97.3	97.6	97.7	97.7		97.7	97.7	97.7	
		78.3		7		95.4			97.8		97.9		98.0			
≥ 700		79.3				95.5			97.9			98.1	98.1	98.1	90.1	98.2
 		78.3				95.7			98.2			98.4				
≥ 500 ≥ 400		78.3				95.8		1	98.4		1	92,7		98.7	98.7	
<u> </u>		78.3				95.9		98.4	98.7			9. • 1	99.0			
≥ 300 ≥ 200		78.3			1	96.0			99.0		99.3					
		78.3				96.0			99.1	99.3			99.6			
≥ 100		78.3				96.0			99.1			99.5				99.9
لـنـــنـا		78.3	83.0	89.0	94.4	96.0	97.2	98.7	99.1	99.3	99.5	99.6	99,7	77.8	99.8	100.0

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFURT 57-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY (ST	ATUTE MIL	ES			·			
ıFEET	≥10	≥6	≥5	≥4	≥3	≥21⁄2	≥2	≥1′2	≥14	≥1	≥`₄	≥>,	۶.۶	≥5 16	≥ .	≥0
NO CEILING ≥ 20000		39.2	40.5		44.4	44.9	45.2	45.6			45.7	45.7	45.7	45.7	45.7	
<u> </u>		48.2	49.8		54.4	54.9	55.4					55.0	55.9	55.9		
≥ 18000		48.3	49.9	52.2	54.0	55.1	55.6	56.0	56.0		56.1	56.1	56.1	56.1	56.1	1 1
<u> </u>		48.4	50.0	52.3		55.2	55.7	56.1	56.1	56.1	56.2	56.2	56.2	56.2	56.2	لحسسنضا
≥ 14000		49.3	51.0		55.7	56.2	56.7	57.1	57.1	57.1	57.2	57.2	57.2	57.2	57.2	
<u> </u>		52.3	54.2	56.6		59.8	60.3		60.8			60.12	60.8	60.8	60.6	
≥ 10000		56.7	59.0	61.9	64.8	65.5	66,2	66.7	66.8			66.4	66.8	66.8	66.8	1
		58.4	60.9		67.1	67.8	66.4			69.1	69.1	69.1	69.1	69.1	59.1	
≥ 8000 ≥ 7000		59.5		65.2	68.4		69.8	70.5	70.6		70.7	70.7	70.7	70.7	70,7	1 4
		61.8	64.4	67.7	71.0		72.6	73.4	73.5			73.5		73.5	73.5	
≥ 6000 ≥ 5000		65.6				76.4		78.0	_	78.2	78.2	78.2	78.2	78.2	78.2	
		69.9					82.2	83.0				83.3	83.3		83.3	
≥ 4500 ≥ 4000		72.0	74.9	-	82.6								85.0			
		74.9						89.0			89.2	89.2		89.3	89.3	
≥ 3500 ≥ 3000		76.4				88.7	89.8							1		1 1
		78.2				91.2	92.3								93.7	
≥ 2500 ≥ 2000		79.2			91.6						95.2		95.2	95.3	95.3	
		80.1													96.5	
≥ 1800 ≥ 1500		80.4				94.3		96.6		96.8	96.8			96.9	96,9	
		81.0	84.6								98.0					
≥ 1200 ≥ 1000		81.5					97.4							98.8		1 1
i		81.6				96.4						99.1	99.1	99.1	99.1	
≥ 900 ≥ 800		81.6				96.4		98.8					99.2	99.2	99,2	
		81.6	85.2		95.2									99.3	99.3	
≥ 700 ≥ 600		81.6	85.2		95.2								99.4			
		81.6			95.2				99.3			99.4	99.4			
≥ 500		81.6			95.2		98,0					99.6				
≥ 400		81.6	85.2			96.7	98.3	99.3	99.5					99.7	99.7	
≥ 300 ≥ 200		61.6			95.3			99.3								100.0
		81.6						99.4								100.0
≥ 100 ≥ 0		81.6					,	99.4								100.0
≥ 0		81.6	85.2	90.1	95.3	96.8	96.1	99.4	99.6	99.8	99,9	99.9	99.9	99.9	99.9	100.0

USAF ETAC TOLEN 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FO

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY IST	ATUTE MILI	E\$:						
(FEET)	≥10	≥6	≥5	≥4	≥3	≥2.2	≥ 2	≥1'2	≥1.	≥1	≥ 1,4	≥ >,,	≥ '5	≥ 5 16	≥ .	≥0
NO CEILING ≥ 20000		42.0 48.5	44.0 51.0	47.0 54.3	49.5 57.0		50.8 50.4	51.3 59.0	51.4 59.0		51.5 59.2	51.5 59.2	51.5 59.2	51.6 59.2	51.6 59.2	51.5 9.2ر
≥ 18000 ≥ 16000		48.6 48.6		54.3 54.4	57.1 57.1	58.0 58.0	58.5 5ສ.5	59.0 59.1	59.1 59.1	59.1 50.2	59.2 59.2	59.2 59.2	59.3 59.3	59.3 59.3		5•9ن 9•3ر
≥ 14000 ≥ 12000		49.4 51.6	A		50.0 50.9		59.4 62.3	60.0	60.0 63.0	60.1	60.2	60.2	60.2	60.2 63.1	60.2	50.2 53.1
≥ 10000 ≥ 9000		56.1 58.0		62.9	66.3		67.9 70.3	68.6 71.0	68.6	68.7 71.1	68.8	68.P	66.8	69.8 71.3	68.8 71.3	68.8 71.3
≥ 8000 ≥ 7000		59.3 62.0		66.6	70.1 73.4	71.3 74.6	71.9 75.2	72.5 75.9	72.6	72.7 76.0	72.8 76.1	72.8 76.1	72.à 76.2	72.8 75.2	72.8	72.8 76.2
≥ 6000 ≥ 5000		66.3 70.2	69.7 73.9	74.4 78.8	78.3 83.0	79.5 84.3	80.2 85.1	80.9 85.8	81.0 85.9	81.1 86.0	81.1 86.0	81.2 86.1	31.2 80.1	81.2 86.1	81.2 86.1	61.2 66.1
≥ 4500 ≥ 4000		72.1 74.5	75.8 78.4	80.U 83.7	85.1 88.2		87.2 90.4	91.2	88.1 91.3	38.2 91.4	88.3 91.5	88.3 91.5	88.3 91.6	88.3 91.6	88.3 91.6	88.3
≥ 3500 ≥ 3000		75.5 76.8		84.9 86.4	89.5 91.2		91.7	92.6	92.7	92.8 94.6	92.9	92.5	92.9 94.8	92.9 94.8	93.0 94.5	93.0 94.8
≥ 2500 ≥ 2000		77.9 78.6		87.6 88.5	92.5 93.5	94.0 95.1	94.9 76.0	95.9	96.0 97.1	96.1 97.2	96.2 97.3	96.2	96.3 97.4	96.3 97.4	96.3	96.3 97.4
≥ 1800 ≥ 1500		78.8 79.0	83.0 83.2	88.7 89.0	93.8		96.3 96.7	97.3 97.8	97.4	97.5 98.0	97.6 98.1	97.6 98.1	97.7	97.7	97.7	97.7 98.2
≥ 1200 ≥ 1000		79.1	83.3 83.3	89.1 89.1	94.4	96.1 96.2	97.1 97.2	98 • 2 98 • 4	98.4 98.6	98.5 98.6	98.6	98.5	98.6 98.8	98.7 98.8	98.7 98.8	98.7 98.8
≥ 900 ≥ 800		79.1 79.1	83.4 83.4	89.2 89.2	94.5 94.6	96.3	97.3 97.3	98 • 5 98 • 5	98.6 98.7	98.7 98.8	98.8 98.9	98.8 98.9	98.9	98.9 99.0	98.9	98.9 99.0
≥ 700 ≥ 600		79.1 79.1	83.4 83.4	89.2 89.2	94.6	96.3	97.4	98.6 98.8	98.8 98.9	98.9	99.0	99.0	99.0	99.1 99.2	99,1 99,2	99•1 99•2
≥ 500 ≥ 400		79.1 79.1	83.4 83.4	89.3 89.3	94.6 94.6	96.4 96.4	97.5 97.6	98.9 99.0	99.0 99.2	99.2 99.3	99.3	99.3	99.3	99.3	99.4	
≥ 300 ≥ 200		79.1 79.1	83.4 83.4	89.3 89.3	94.6 94.6		97.6 97.6	99.1 99.1	99.3	99.4 99.5	99.6	99.6 99.7	99.6	99.7 99.7	99.7	99.7 99.8
≥ 100 ≥ 0		79.1 79.1	83.4 83.4	89.3 89.3	94.6		97.6 97.6		99.3 99.3	99.5 99.5	99.6 99.6	99.7 99.7	99.7 99.7	99.8 99.8		99.9 100.0

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

					`											
CEILING							VIS	IBILITY (ST.	ATUTE MIL	ES.						
(FEET)	≥10	≥6	≥5	≥4	≥ŝ	≥ 2 ¹ಌ	≥2	≥1'2	≥1'₄	≥1	≥ 34	≥,•	در ≥	≥5 16	≥ .	≥0
NO CEILING ≥ 20000		40.0						50.0 59.7		50.1 59.9			50.1 59.9	50.2 50.0	•	
≥ 18000 ≥ 16000		48.1 48.1														50.2
≥ 14000 ≥ 12000		49.3 52.9		55.9 60.3	1	60.0 64.8	60.8	61.5	61.6	61.7	61.7	61.7	61.7	61.7	61.7	01.8 00.3
≥ 10000 ≥ 9000		56.0 57.9			69.5 71.3	70.4 72.2	~			72.7 74.7		72.7	72.7	72.8 74.7	72.0 74.8	
≥ 8000 ≥ 7000		58.5 60.4		67.5 69.8		73.3 75.8	70.8	78.0	78.3	78.3	78.3	78.2		78.4	78.4	78.4
≥ 5000 ≥ 5000		02.9 65.5		72.7 75.9	77.7 81.1	82.3	1			85.1	95.1	81.4 5.1	85.1	81.6 85.1	91.6 85.2	
≥ 4500 ≥ 4000		66.8 68.5	73.5	77.5	85.0	85.3	87.4	86.9	89.1	89.3	89.3	89.7	89.3	89.3	89.3	39.4
≥ 3500 ≥ 3000		69.4 70.6	75.8	82.	87.9	89.3	90.6	92.1		92.6	92.6	92.4	92.5	92.5	92.5	22.7
≥ 2500 ≥ 2000		71.6	77.9	84.5	90.7	92.4		95.4	95.7	95.9	95.9	95.9	95.9	95.9	94.5 95.9	
≥ 1800 ≥ .500		72.7	78.2 78.6	84.9 85.5	91.8	93.6	94.9	96.8	97.1	96.2 97.3	97.5	97.2	97.3		96.3 97.4	
≥ 1200 ≥ 1000		73.2 73.3	78.9		92.4	94.2	95.6	97.6		98.3	78.3	98.3	98.3	98.3	98.3	98.4
≥ 906 ≥ 800		73.3	78.9 78.9		92.5	94.3	95.7	97.8			90.5	98.5	98.5		98.6	78.6
≥ 700 ≥ 600		73.3		86.0 86.1	92.6	94.5	95.9	98 • 1	98.6	98.3	98.8	98.8			98.7 98.9	
≥ 500 : 400		73.3	79.0 79.0	86.1 86.1	92.6 92.7	94.6	96.1		98.9		99.2	99.2	99.2	99.2	99.3	99.3
≥ 300 ≥ 200		73.3		86.1 86.1	92.7	94.7			99.2	99.5	99.6	99.6	99.7	99.7	99.7	99.8
` 100 ≥ 0		73.3 73.3		86.1 86.1	7	94.7	96.2 96.2			99.5 99.5						99.8 100.0

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT

. ()

07-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL FOURS 15'

CEILING							VIS	IBILITY ST	ATUTE MIL	ES						
(FEET)	≥10	≥6	≥5	≥4	≥3	≥2 2	≥ 2	≥1;	≥1 4	≥1	≥ 14	≥'>	≥,	≥ 5 10	≥ .	≥0 1
NO CEILING ≥ 20000		30.1 35.9					45.7					46.4 55.1	46,4 55.1	46.5 55.2	46.5 55.3	46.7 55.4
≥ 18000 ≥ 16000	ĺ	35.9 35.9	38.9		48.8	50.1 50.1	52.0		54.7 54.7	54.9 54.9	55.1	55.1	55.2	55.3	55.3	55.5
≥ 14000 ≥ 12000		36.3 38.1	39.4		49.4	50.7 53.6	52.6	54.7	55.3	55.6	55.7	55.1	55.2 55.9	55.9	55.3 56.0	
≥ 10000 ≥ 9000		41.6	45.2 47.2	51.0	57.3	58.9	60,9	63.3	58.4	64.3	54.4	58.9	64.6	5° • 0	59.1 64.7	04.9
≥ 8000 ≥ 7000		45.1 47.3	49.0	55.0	61.6	63.6	65.8		69.1	69.4		67.3		69.7	69.8	70.0
≥ 6000 ≥ 5000		50.5 53.1	54.5 57.4	61.0	68.1	70.1	72.5	71.0 75.1	71.8	76.2	72.3	76.4	72.4	76.5	72.5	76.8
≥ 4500 ≥ 4000		54.5 56.8	59.0 61.4	66.1	73.8	74.1 76.0	76.6 78.5	79.3 81.3	80.2	82.6	82.7	8C.9	80.6	83.0	83.0	53.2
≥ 3500 ≥ 3000		58.0 59.0	62.7	70.2 72.0	78.5 80.6	79.3 80.9	83.4	86.3	67.2	86.0 87.7	57.8	87.0	87.9	88.0	86.4	38.3
≥ 2500 ≥ 2000		60.6	65.8	73.7	82.4	84.9	85.6	90.7	91.7	90.1	90.2	90.3	90.3	90.4	90.5	92.8
≥ 1800 ≥ 1500		62.1	67.2	75.2 75.6	83.7	86.7	89.4	92.6	93.6	93.7	93.9	94.4	94.4	94.5	94.0	94.8
≥ 1200 ≥ 1000		62.5	67.7	75.9 75.9	85.0	87.4 87.8	90.0	93.4	95.1	94.9	95.7	95.9	95.2	96.0	96.0	96.2
≥ 900 ≥ 800		62.5	67.7	76.0	85.2 85.3	88.2	91.0	94.5	95.4 95.5	96.0 96.1	96.2	96.3	96.4	96.4	96.5	96.6
≥ 700 ≥ 600		62.6	57.7 67.8	76.0 76.0 76.1	85.3	88.3	91.2	94.6	95.6	96.2	96.5	96.5	96.5	96.6	96.9	97.0
≥ 500 ≥ 400		62.6	67.8	76.2	85.7	88.7	91.7	95.4	96.6	96.7	96.8	97.4	97.0 97.5	97.6	97.7	97.4
≥ 300 ≥ 200		62.6	67.8 67.8	76.2	85.7	88.7	91.8	95.7	96.9	97.7	97.6	98.1	98.2	97.9	98.4	98.2
≥ 100 ≥ 0		62.6	67.8	76.2 76.2 76.2	85.8 85.8	88.8	91.8	95.7	97.0 97.0	97.8	98.1	98.4 98.4	98.6	98.8 98.8	98.7 98.8 99.0	99.1

TOTAL NUMBER OF OBSERVATIONS.

6666

USAF ETAC XIE 0-14-5 (QL A) MEVIOUS EDITIONS OF THIS FORM ARE DISOLET

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFUPT 57-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	IBILITY -ST	ATUTE MILI	ES1						
(FEET)	≥10	≥6	≥5	≥ 4	≥3	≥21⁄2	≥ 2	≥1'7	≥1'4	≥1	≥ 1.4	≥'•	≥',	≥ 5 16	≥.	≥0
NO CEHING ≥ 20000		17.7	19.3	22.1			27.9	30.2	31.2			32.2	32.3	32.5		
		21.3	23.3	26.7	30.9			36.7	37.7	38.4		38.0	39.0	39.2		
≥ 18000 ≥ 16000		21.4	23.3	26.7	31.0	32.5	34.2	36.8	37.8	38.5	38.8	39.0	39.1	39.3	- 1	59.9
		21.4	23.3	26.7	31.0	32.5	34.2	36.8	37.8	38.5		39.0	39.1	39.3		9.9ر
≥ 14000 ≥ 12000		21.8		27.2	31.5	33.0	34.6	37.3	38.3	39.0	39.3	39.5	39.6	39.9	39.9	40.4
		23.5	25.6	29.3		35.3		39.7	40.8	41.4	41.8	41.9	42.0	42.3	42.4	
≥ 10000		25.9	28.1	32.1	36.7	38.4	40.1	42.9	44.0	44.7	45.0	45.1	45.2	45.5	45,6	
≥ 9000		26.7	29.0	33.1	37.8	39.5		44.2	45.3	45.9	46.3	46.4	46.5	46.8		47.4
≥ 8000		27.3		33.9	38.7	40.5	42.4	45.3	46.4	47.0	47.4	47.5	47.0	47.9	48.0	48.5
≥ 7000		28.8		35.6	40.6	42.4	44.4	47.4	48.5	49.2	49.5	49.7	49.8	50.0	50.2	50.7
≥ 6000		31.5		38.7	43.9	45.8	47.9	51.1	52.2	52.9	53.3	53.5	53.6	53.8	54.0	54.5
≥ 5000		34.5		42.3	47.9	49.9	52.1	55.3	56.4	57.2	57.6	57.2	57.9	59.2	58.3	_ემ•8
≥ 4500		36.2	39.5	44.5	50.2		54.7	58.0	59.1	59.9	60.3	60.5	60.6	60.9	61.0	01.5
≥ 4000		38.7	42.1	47.7	54.0	56.3	58.8	62.2	63.4	64.3	64.6	64. R	64.9	65.2	65.3	55.9
≥ 3500		40.9	44.5	50.3	57.1	59.4	62.1	65.7	66.8	67.7	68.1	68.2	68.3	68.6	68.8	69.3
i 3000		43.7	47.4	53.6	60.7	63.1	65.9	69.7	70.9	71.8	72.2	72.4	72.5	72.8	73.0	73.5
2500		45.5	49.4	56.0	63.5	66.2	69.1	73.1	74.3	75.2	75.6	75.R	76.0	76.3	76.4	77.0
≥ 2000		47.5		58.9	67.0	69.7	72.3	76.9	78.1	79.1	79.5	79.7	79.8	80.1	80.3	8.08
≥ 1800		43.3	52.6	60.0	68.4	71.1	74.2	78.3	79.6	80.6	81.0	81.2	81.3	81.5	81.8	82.3
≥ 1500		49.2	53.8	61.8	70.7	73.6	76.7	81.0	82.3	83.3	83.7	83.0	84.1	84.4	84.5	85.1
≥ 1200		49.8	54.7	62.9	72.4	75.5	78.8	83.2	84.5	85.6	86.0	86.2	86.3	86.6	86.8	87.3
≥ 1000		49.9	54.8	63.3	73.1	76.2	79.5	84.0	35.4	86.4	86.9	87.1	87.2	87.6	87.7	38.3
≥ 900		49.9	54.9	63.4	73.3	76.5	79.8	84.4	85.7	86.8	87.2	87.4	87.6	87.9	88.1	68.6
≥ 800		49.9	54.9	63.5	73.6	76.7	30.1	84.7	80.1	87.2	87.6	87.9	88.1	88.4	88.6	39.1
≥ 700		50.0	55.0	63.6	73.8		80.4	85.1	86.5	87.6	88.1	88.3	88.5	88.8	39.0	89.5
≥ 600		50.0	55.0	63.6	74.0	77.2	80.7		86.9	88.1	88.6	88.0	89.0	89.3	89.5	90.0
≥ 500		50.0	55.0	63.1	74.1	77.4	B1.0	86.0	87.5	88.8	89.4	89.7	89.9	90.2	90.4	90.9
≥ 400		50.0	- 35 . C	63.7	74.2	77.5	81.1	86.4	1	89.5	90.2	90.5	90.8		91.2	91.8
≥ 300 ≥ 200		50.0	55.0	63.7	74.2	77.6	81.4	87.0	89.0	90.7	91.7	92.2	92.6	93.0	93.2	93.7
≥ 200		50.0	55.0	63.7	74.2	77.6	81.4	87.1	89.2	91.0	92.1	92.9	93.2	93.8	94.1	94.9
≥ 100		50.0	55.0	-63.7	74.2	77.6		87.1	59.2	91.1	92.1	92.9	93.4	94.2	94.6	96.6
≥ 100 ≥ 0		50.0	55.0	63.7	74.2	77.6	. ~	87.1	89.2	. ~	92.2	92.9	93.5			100.0

6834

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERHANY/FRANKFURT 57-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	IBILITY -ST	ATUTE MIL	ES						
(FEET)	≥10	≥6	≥5	≥4	≥3	≥2'2	≥ 2	≥1;	≥1'4	≥1	≥ ,-	≥ '•	≥ ,	≥5 10	≥ .	≥0
NO CEILING ≥ 20000		14.0	15.5			20.9				. 1	23.8		23.9	24.0		
≥ 18C00		17.1	18.9	21.1	24.3	25.5					28.8		29.0 29.1	29.0	29.1 29.2	29.4
≥ 16000		17.3	18.9			25.6	26.5 26.5	27.9 28.0	28•5 28•5		29.0 29.0	29.1	29.2	29.2	29.3	29.6
≥ 14000		17.5			24.7	25.9	26.9		28.9	29.4	29.4	29.5	29.6		29.7	30.0
≥ 12000		18.7	20.5	23.1	26.3	27.5	28.6		30.7	31.2	31.2		31.4	31.5	31.5	1.8د
≥ 10000		21.3	23.4	26.4		31.2	32.3	34.0	34.6	35.1	35.1	35.2	35.3	35.4	35.4	35.8
≥ 9000		22.4	24.6			32.7	33.8	35.6	36.3	36.7	36.8		37.0	37.0		37.4
≥ 8000 ≥ 7000		23.1	25.3	28.6		33.7	34.8	36.6	37.3	37.8	37.8		36.0	38.1	38.1	ب.8ر
		24.0	26.4	29.7	$\overline{}$	35.0	35.1	38.7	38.7	39.1	39.2		39.3		39.5	39.8
≥ 6000 ≥ 5000		25.6 28.1	28.0	31.5	35.5 38.9	37.2	38.3	40.3	41.0	41.5		1	41.7	41.8 45.6		42.2
≥ 4500		30.2	32.9	36.7	41.5	40.6	44.6	46.8	44.8	48.1	45.3		48.3	48,4	48.5	48.8
≥ 4000		33.d	36.d		45.4	47.4	46.9		52.0	52.6			52.8			53.3
≥ 3500		35.8			49.Q	51.2	52.8		56.2	56.7			57.0		57.1	57.4
≥ 3000		38.9	42.4	47.3	53.5	55.8	57.6	60.5	61.3		62.0		62.2	62.3	62.3	62.6
≥ 2500 ≥ 2000		41.5	45.3	50.6	57.6	60.1	62.1	65.4	66.3	66.9			67.2		67.3	67.7
		44.3	48.4	54.1	61.8	64.5	56.8		71.4	72.0			72.3		72.4	72.8
≥ 1800 ≥ 1500		45.3 46.8	49.6	55.6 57.9		66.2	68.6		73.4	74.0	74.1	74.2	74.3		74.5	74.8
≥ 1200		47.7	51.3 52.3		66.3	69.1 72.2	71.7 75.4	75.7	76.8 80.9		77.6 81.3		77.9	78.0 81.7	78.0 81.7	78.3
≥ 1000		47.9	52.8			73.4	76.5	81.2	· ·	83.1	83.3	83.4	83.5	83.5		34.0
≥ 900		47.9	52.9			73.8	77.0	81.8	83.0	83.7	83.9	84.0	84.1	84.2	84.3	34.6
≥ 800		48.0	53.0	60.7	71.1	74.5	77.8	83.0	84.3	85.0	85.1	85.7	85.4	85.5	85.6	85.9
≥ 700 ≥ 600		48.0	53.1		7	74.8	76,3	83.7	85.0	85.8			86.2	86.3	86.3	86.6
		48.1	53.2			75.2	78.8	84.5	85.9	86.7	86.9		87.2			37.5
≥ 500 ≥ 400		48.1	53.2		72.0	75.6	79.4	85.8	87.2	88.1	88.3		88.5	88.6		
≥ 300		48.1	53.2 53.3	61.1	72.1	75.8 75.0	80.3	87.7	89.7	91.2	89.9 91.9	90.0	90.2	90.3	90.3	93.0
≥ 200		48.1	53.3	61.2	72.2	75.0	80.3	88.0	90.3	92.5	93.5		94.4		95.1	95.8
≥ 100		48.1	53.3	61.2	72.2	76.0	80.3	88.0	90.3	92.7	93.7	94.3	94.9			97.9
≥ 0		48.1	53.3			76.d	80.3	_	90.3		93.7		75.0			100.0

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 07-76

PERCENTAGE FREQUENCY OF OCCURRENCE

(FROM HOURLY OBSERVATIONS)

ALL

CEILING							VIS	BILITY ST	ATUTE MILI	5						
FEET	≥10	≥6	≥5	≥ 4	≥ 3	≥2?	≥ 2	21:>	≥1.	≥ 1	≥ 14	≥ '•	≥ :	≥5 16	2.	≥o
NO CEILING		10.8	11.7	13.9	16.6	17.4	16.4	19.5	14.9	20.1	20.1	20.1	20.2	20.3	20.3	20.4
≥ 20000	<u> </u>	12.7	13.8	16.5	19.7	20.7	21.9	23.1	23.5	23.7	23.8	23.0	23.9	24.0	24.1	4.1
≥ 18000		12.7	13.9	16.6	19.8	20.8	22.0	23.2	23.7	23.9	24.0	24.0	24.1	24.2	24.2	24.
≥ 16000	İ	12.7	13.9	16.6	19.8	20.3	22.0	23.2	23.7	23.9	24.0	24.7	24.1	24.2	24.2	24.
≥ 14000		12.9	3	17.0	,		22.5	23.7	24.1	24.3	24.5	24.5	24.0			24.8
≥ 12000	ļ	13.5	-	17.8			23.6	25.0	25.4	25.6		25.7	25,6			_6.n
≥ 10000		14.5	1 1	19.2		24.4	25.7	27.1	27.5	27.8		27.9	28.0		28.1	28.2
	ļ	15.2		20.0				28.2			Ī			29.2		29.3
≥ 8000 ≥ 7000	ļ	15.7	17.1	20.5	-		27.5	29.0					29.9	1		
	! -	10.3							30.6	30.8		31.0		31.2		31.3
≥ 6000 ≥ 5000	\	17.5						32.2			33.0		23.2			33.4
	!	19.7							36.6		37.0		37.1	37.2		37.3
≥ 4500	1	21.8	1					_ ' _ '		40.2			40.5			40.7
≥ 3500		26.7						44.1	44.6				45.2 50.0			50.2
≥ 3000	1	29.1					50.8	_		55.1	55.3	55.4	55.5			-5.6
≥ 2500	 	31.4				52.9		58.8		60.3		60.5	6C.6		60.7	30.8
≥ 2000	}	34.1	38.3							66.3			66.6		66.7	66.8
≥ 1800		35.4			56.6			67.4		69.0		69.3	69.4			59.6
≥ 1500	}	37.2						1	,				74.7	74.8		74.9
≥ 1200		38.4		52.8		68.6	72.3	77.2	75.6			79.5	79.7	79.8		79.9
≥ 1000		38.8	44.2						1				82.9	83.0		33.2
≥ 900		38.9	44.3	54.2				31.2		83.5			84.0		84.1	84.2
≥ 820		39.0	44.4	54.6	67.8	72.5		83.0	84.7	85.6	85.9	86.0	86.1	86.2	86.2	ر 36.3
≥ 700		39.0	44.5	55.1	68.7	73.7	78.6	84.9	86.6	87.6	87.9	88.0	88.1	88.2	88.3	58.3
≥ 600		39.0	44.6	55.4	69.7	74.8	79.9	86.6	88.6	89.7	90.0	90.2	90.3	90.4	90.4	90.5
≥ 500	[39.1	44.6	55.6	70.4	75.7	81.0	88.4	90.5	91.8	92.1	92.3	92.4	92.6	92.6	92.7
≥ 400		39.1	44.6	55.7	70.5	75.9	81.4	89.3	91.7	93.3	93.6	94.1	94.2	94.4	94.4	14.5
≥ 300	[39.1	44.6	55.7	70.6	76.0	81.7	89.9	92.6	94.7	95.3	95.7	95.9	96.2	96.2	96.3
≥ 200	L	39.1	44.6	55.7	70.6	76.1			92.9	95.4	96.2	96.7	96.9	97.4	97.5	77.6
≥ 100	l	39.1					81.7	90.1		95.4		96.9				99.0
≥ ≎	ļ	39.1	44.6	55.7	70.6	76.1	81.7	90.1	92.9	95.4	96.4	97.0	97.5	98.6	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS ...

7032

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFURT 57-70

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

2006-2200

CEILING							VISI	BILITY STA	ATUTE MILI	S						
FEET	≥10	≥6	≥5	≥4	≥3	≥2 2	≥2	≥17	≥1.	≥1	≥ 1.	≥,	≥ 2	≥5 16	≥ .	≥0
NO CEILING ≥ 20000		12.8 13.6		15.9 17.2	19.4	20.0	20.7	27.7	22.8	[23.3	23.5	23.0			و رو و رو
≥ 18000 ≥ 14000		13.7	15.2	17.4	21.1	21.7	22.4	24.9	25.0	25.5	25.5	25.°	25.8 25.8	25.9	25.9	
≥ 14000 ≥ 12000		13.9	15.4	17.6 18.0	21.5	22.0	22.7	25.3		25.9	25.9	25.3	26.3	25.4	26.4	26.5
≥ 10000 ≥ 9000		16.5	18.5		25.1 25.9	25.0	20.8	30.0	30.3	30.7	30.7	31.1	31.1	31.2		31.3
≥ 800G ≥ 7000		17.6 18.7	19.6	22.1	26.8	27.7	28.7	32.9	32.2	32.6	32.5	33.0	33.0	33.1	33.1	23.2
≥ 6000 ≥ 5000		20.8	22.4	25.8	28.4 30.7 33.6	29.3 31.8 35.2	32.9	33.7 36.6 49.8	33.9 37.0 41.1	34.4 37.7 41.8	34.4 37.7 41.8	34.7 38.0 42.1	34.7 38.0 42.1	34.8 38.1 42.2	38.1	9.4ر 98.2 42.4
≥ 4500 ≥ 4000		24.0	26.1	29.2	35.7 39.5	37.3 41.3	36.6 39.0 43.2	43.6	43.9	44.6 49.0	44.6 49.0	45.7	45.0 49.3	45.1	45.1	45.2
≥ 3500 ≥ 3000		28.1			42.2 45.7		46.0 50.0	50.9 55.1	51.4 55.7	52.1 56.4	52.1 56.4	52.4 57.0	52.4 57.0	52.5		
≥ 2500 ≥ 2000		33.2	36.4 41.8	41.3	51.0 58.0	53.4	55.6 63.2	60.7 68.6	61.3	62.0	62.0	62.6	62.6	62.7	62.7	52.3
≥ 1800 ≥ 1500		40.2			60.7	63.8	6c.1	71.6	72.1 78.3	72.8	72.9 79.0		73.4 79.6	73.5 79.7		73.6
≥ 1200 ≥ 1000		42.9		54.6 55.8	67.4 68.9	71.3	74.3 76.1	81.4	82.1 84.0	82.8 84.7	82.6 84.7	83.3	83.4 85.4	83.6	83.6	83.7
≥ 900 ≥ 800		43.7	48.5 48.6	56.3	59.4	73.5		83.8 84.7	84.5 85.4	85.2 86.1	35.2 36.2	85.7	85.8	86.0	86,0	o6 · 1
≥ 700 ≥ 600		43.7	48.9	57.1	71.0	75.2 75.8	78.3	85.8 87.0	86.9	67.7 88.9	87.8 39.0	88.4	88.5	88.6	88,6	8.7
≥ 500 ≥ 400		43.7	48.9	57.2	71.6	76.3 76.5	79.9	88.2	89.6	90.8	91.0 92.5	91.7	91.8 93.4	91.9	91.9	
≥ 300 ≥ 200		43.7	48.9	57.3	72.0 72.1	76.9 77.1	81.2	90.5	92.6	94.2	94.5	95.7	95.5	95.8	95,9	96.0
≥ 100 ≥ 0		43.8 43.8	49.0	57.4	72.1 72.1	77.1 77.1	81.4	90.9	93.2	95.1	95.7	96.P	97.4	97.7	97.8	

USAF ETAC AT 44 0-14-5 (OL A) MEVIOUS BOTTONS OF TO

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY ST	ATUTE MIL	ES						,
FEET	≥10	≥6	≥5	≥4	≥3	≥2'ז	≥ 2	≥1;	≥1 4	≥1	≥ 34	≥:•	≥ :	25 16	≥	≥0
NO CEIUNG ≥ 20000		8.7 9.6	9.4 10.5		12.8 14.5	14.1	16.7	16.9	17.7 19.7	18.1	,	19.0		19.3 21.2	19.3 21.2	19.3
≥ 18000 ≥ 16000		9.7 9.7	10.6		14.6	15.9	15.5 15.5	1	19.8	20.1	20.6	21.7	21.2	21.4	21.4 21.4	21.4
≥ 14000 ≥ 12000		9.7 10.6	10.6		14.7 15.9	16.0 17.5	16.5 18.2	19.1 20.8	19.9 21.7	20.2	20.7	21.1	21.4 23.2	21.5 23.3	21.5 23.3	21.5
≥ 10000 ≥ 9000		12.2	13.4 14.7	15.4 16.7	15.2 19.7	19.8 21.4		25.2	24.3 20.1	24.6 26.6		25.5	25.5 27.7	25.9 27.8	27.5	,5.9 ,7.8
≥ 8000 ≥ 7500		13.9 14.7	15.4 16.2	17.5 18.5	20.0 21.6	22.3 23.4	23.2 24.4	27.6	27.1 28.5		28.1	28.4 30.1	30.3	2R.9 30.4		28.9 0.4
≥ 6000 ≥ 5000		15.8 17.7	19.4	22.0	22.8 26.0	24.6 27.9	25.8 29.0	-	29.9 33.8		31.2 35.3	31.4	31.9 35.9	32.0 36.0		20.0 6.0
≥ 4500 ≥ 4000		19.1 22.0	23.7	26.7		30.1 33.8	31.3 35.1	39.0	36.0 40.2	41.2	37.5 41.7	38.0 42.1	38.2 42.4	39.3 42.5	38.3 42.5	38.3 -2.5
≥ 3500 ≥ 3000		24.1 27.6	30.6	34.6		37.7 43.1	39.2 44.7	43.7	44.4		45.9 51.5	46.4 52.2		46.8 52.7	46.b 52.7	46.8 52.7
≥ 2500 ≥ 2000		31.0 34.5			46.1 51.2	49.3 54.7	51.4 57.2	61.6		64.1	58.3 64.5	59.0 65.2	65.5	65.6		59.4 55.8
≥ 1800 ≥ 1500		35.9 39.3	43.7	50.8			59.9 66.4	71.3	65.8 72.8	74.1	67.5 74.6	68 • 1 75 • 2			75.7	68.7 75.8
≥ 1200 ≥ 1000		40.1		53.4		65.6	69.3	77.4	76.3 79.1	77.6 80.6	81.0	79.8	79.1 82.0		79.2 92.1	79.3 2.3
≥ 900 ≥ 800		40.8	45.2	53.4		67.9 68.6	71.8 72.5	79.2	79.7 81.0			82.3 83.6	84.0	84.1	82.7 84.1	\$2.8 04.2
≥ 700 ≥ 600		40.8	45.5	54.5	65.2	69.2 70.3		82.0	82.4	85.8	86.4	85.1 87.2	85.4 87.6		87.7	65.8 67.9
≥ 500 ≥ 400		40.8	45.5	54.8		71.4 72.0	75.7				89.7	90.4	91 1	91.3	91.3	90.1
≥ 300 ≥ 200		40.8	45.8	55.0	66.6	72.5 73.0	77.6	87.2	90.6	93.0	94.0	95.1	95.7	95.9	93.7	93.9
≥ 100 ≥ 0		40.8					77.6		90.6	93.0 93.0		95.3				97•4 100•0

TOTAL NUMBER OF OBSERVATIONS

885

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							viS	BILITY ST	ATUTE MILE	ES						
(FEET)	≥10	≥6	≥5	≥4	≥3	≥2 ?	≥ 2	≥1'7	≥1'.	≥1	2	≥>.	≥ ;	≥ 5 16	≥ .	≥0
NO CEILING ≥ 20000		5.3 6.1	7.2	6.7 8.2	9.3 11.2	10.5	11.0 15.4	14.1 16.9	14.5 17.5	15.1 18.2	15.4	16.1	16.2 19.3	16.2 19.6	16.3	19.9
≥ 18000 ≥ 16000		6.1	7.2 7.2	8.2 8.2	11.2	12.5	13.4	16.9 16.9	17.5 17.5	18.2	18.5 18.6	19.2	19.3 19.3	19.5 10.6	19.7 19.7	19.0
≥ 14000 ≥ 12000		7.0	1 1	8.7 9.6	11.7 12.8	13.0 14.3	15.8	17.4 18.8	13.1 19.5	18.9 20.2	19.2 20.c	19.9 21.2	20.0	20,4 21.7	20,5	20.7
≥ 10000 ≥ 9000		7.9	9.6 9.8	11.1	14.8 15.4	16.4 17.0	17.3		21.9	22.7 23.4		23.7	23.8 24.5	24.2	74.3 75.0	24.5 25.2
≥ 8000 ≥ 7000		8.2	1 1	11.6	15.6 16.4	17.2	16.1	21.5	22.8 23.6	20.6		24.7 25.9	25.0 25.0		25.4 26.5	∠5•6 ∂6•8
≥ 6000 ≥ 5000		10.0		13.7 15.9	18.0	19.6 22.4	20.5		25.3 28.9	26.1 29.7	26.5 30.1	27.4	27.7 31.4	23.1 31.9	25.2 32.1	28.5 32.3
≥ 4500 ≥ 4900		13.9	1	18.2 19.8	23.5 25.8	25.5	26.8	31.0	32.4 35.2	33.2 36.0	33.6 36.4	34.5 37.5	34.9	35.4 38.2	35.2 58.4	35.5 28.6
≥ 3530 ≥ 3000		17.2 20.9	1 1	22.6	26.8 34.0	36.0	32.3 38.0	37.0 42.7	38.5 44.7	39.3 45.4		40.7	40.9	48.0	41.6 48.1	41.8 48.5
≥ 2500 ≥ 2000		24.1	27.3 31.5	30.7 35.4	38.0 43.5	40.4	42.7	47.8 55.0	49.7 56.9	50.5 57.9		52.1 59.5	52.5 60.0	53.2 60.5	53.3 50.7	33.7 51.1
≥ 1800 ≥ 1500		29.8 32.1	34.0 35.7	38.6 41.8	47.4 51.2	50.7 55.1	54.0 58.7		62.5 68.6	67.5 69.6	70.2	65.1 71.2	65.6 71.7	66.3 72.3	56.4 72.4	56.7 72.8
≥ 1200 ≥ 1000		33.5		44.7 45.8	54.4 56.1	58.4 60.1	62.2 63.	71.0 73.1	73.5 75.6	74.5	75.1 77.4	76.2	76.6 78.9	77.3 79.5	77.4	
≥ 900 ≥ 800		34.2		45.9 46.0	56.6 57.0	60.6	64.6 65.4		76.6 77.8	77.7	78.4 79.6	79.4 60.7	79.9 81.1	80.5 81.9	80.7	31.0 02.2
≥ 700 ≥ 600		34.2	39.5	46.2		61.8			79.4 80.9			82.7 84.4	82.7 84.6	85.4 85.6	83,5 85,7	83.8 5.1
≥ 500 ≥ 400		34.2	1 1	46.5 46.5		63.3 63.8	68.2 6r.7		82.5 93.6	85.6	84.8	86.1 88.1	8ა,5 88.4	87.4	87.5 89.7	90.0
≥ 300 ≥ 70		34.2		46.5 46.6		63.8 63.9	69.4		85.7 86.7	88.1 89.3		90.7	91.1 92.4	92.2 93.6	92,4	
≥ 100 ≥ 0		34.2							1 1			92.7 92.7	93.3 93.3	1 1	94,9 95.7	96.7 100.0

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

RHEIN-HAIN APT GERMANY/FRANKFURT 57-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING				_			VIS	BILITY ST	ATUTE MILE	5						*
FEET	≥10	≥6	≥5	≥4	≥3	≥2'7	≥ 2	≥1,	≥1'•	≥ા	≥ `₄	≥ '•	≥ ,	≥ 5 16	≥ '•	≥ა
NO CEILING ≥ 20000		6.4 8.7	7.0 9.7	7.5 10.6	10.0	10.9 15.3	12.3	13.7	14.2 19.9	14.8 20.6	ئ. 15 ر. 21	16.1 22.1	16.1	22.9	16.5	16.5
≥ 18000 ≥ 16000		8.9 8.9	9.9	10.8 10.8	14.0	15.6 15.6	17.2 17.2	19,3 19,3	20.2	21.0 21.0	21.9	22.4	22.5	22.2	23.2 23.2	23.4
≥ 14000 ≥ 12007		9.5	10.7	11.4	14.5 15.7	16.2	17.7	19.9 21.5	20.8	21.5 23.2	22.4	23.7	23.1 24.9	23.8	25.6	24.0 ,5.8
≥ 10000		10.2	12.1	13.8 14.7	17.5 18.8	20.6	?1.0 22.3	23.5	24.4 26.1	25.2	28.0	26.0	27.1 28.8	27.8 29.5		28.0 29.7
≥ 8000 ≥ 7000		11.8	13.7	15.7	20.1	22.0 22.0	23.7 24.7	26.5 27.5	25.5	29.2	29.4 30.4	29.9 31.0	30.1 31.3	30.8	30.8 32.1	52.4
≥ 6000 ≥ 5000		13.1	16.2	17.9	22.8	25.1 27.3	20.9	29.7 32.8	30.9 34.3	31.7	32.8 36.3	37.1	33.7	34.7	34.7	34.9 38.5
≥ 4500 ≥ 4000		14.6	17.2	20.6	26.3 29.4	32.0	31.3 34.8		36.3	37.2 41.5	38.3 42.6		39.4 43.8	40.4	40.4	45.0
≥ 3500 ≥ 3000		17.7 19.6		25.7	32.9	39.1	35.6 42.2	47.4	44.6	51.3	47.3 52.5	53.3			49.4 54.9	99.7 55.1
≥ 2500 ≥ 2000	i	22.5		31.9 34.9	40.7	49.1	45.0 52.9	59,5		58.5	59.6 65.3	60.5	61.6	62.1	62.1 57.7	02.3 38.0
≥ 1800 ≥ 1500		25.9		37.9	46.2	57.3	54.5			70.5	67.3 71.7	68.7 72.7	68.9 73.3	74.7		74.6
≥ 1200 ≥ 1000		28.8	33.8			59.3		72.4	72.8 75.4	75.6 78.2	76.7 79.4	77.7 80.5	78.3 81.4	82.4	79.4	79.6 2.6
≥ 900 ≥ 800		29.0	33.8	41.0	54.4 54.8	60.3			70.0 77.6	78.8 80.4	79.9 81.5	81.1	82.0 83.6		34.6	53.3 54.8
≥ 700 ≥ 600		29.0	33.8	41.1	55.1 55.1	60.6		75.3 76.0	79.5	82.6	84.C	85.2	85.0 86.4	87.5	86.2	37.7
≥ 500 ≥ 400		29.0	33.0	41.1	55.1 55.1	61.0	66.3		79.9 81.5	85.6	87.9	89.F	90.0	89.3 92.2	92.2	39.5
≥ 300 ≥ 200		29.0	33.8	41.1	55.1 55.1	61.0	65.3		82.5 82.5	87.4 87.5	90.1	91.9	93,4	97.3	95.4 97.5	
≥ 100 ≥ 0		29.0		41.1	55.1 55.1	61.0	66.3		82.5 82.5	87.5 87.5	- • -	92.6	94.9		98.1 98.2	98.7 100.0

USAF ETAC JUL 44 0-14-5 (OL A) MEVIOUS EDITIONS OF TO

CEILING VERSUS VISIBILITY

RHEIN-HAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1200-1400

CEILING							VISI	BILITY STA	ATUTE MILI	ES:						
(FEET)	≥10	≥6	≥5	≥4	≥3	≥25	≥ 2	≥1':	≥1.	≥1	≥ 34	≥`•	≥ :	≥5 16	≥ .	≥0
NO CEILING ≥ 20000		7.6 11.1	9.2 13.7		12.5 18.2	13.1 19.5	1 3 . 8 2 0 . 4	14.5 22.0		16.2	16.2 23.8		16.5 24.6			
≥ 18000 ≥ 16000		11.1	13.7	15.5 15.5	18.2	19.6	20.5	22.1	23.1	23.8		24.6		24.9	24.9	
≥ 14000 ≥ 12000		11.3	14.2	16.0	18.9	20.3	21.2	22.8	23.8	24.5	24.6	25.3	25.4	25.6	25.6	
≥ 10000 ≥ 9000		13.1	16.4	18.7	22.2	23.9	25.0	26.6	27.6	28.5	28.7	29.7	29.0 31.6	29.8	29.8	29.8
≥ 8000 ≥ 7000		14.6	18.1 18.8	20.6	24.6	26.7	23.0	29.6	30.8	31.5	31.7	32.4	32.6	32.8	32.8	
≥ 6000 ≥ 5000		15.7	19,7	22.9	28.2	30.5	31.9	33.7	34.9	35.8	36.C	36.7	36.9	37.5	37.5	7.5ر
≥ 4500 ≥ 4000		13.6		26.5	31.9	34.5	36.1 39.4	38.3	39.6 43.4	40.7	40.9	41.6	41.9	42.5		42.5
≥ 3500 ≥ 3000		20.5		29.8 33.3	36.6 41.0	39.5	42.0	45.0 50.2	46.3 51.6	47.6 52.9			49.0 54.4			49.7
≥ 2500 ≥ 2000		26.3 30.4		37.7 42.6	46.4 52.3	50.6 57.3	53.7 60.7	58.1 65.3	59.9 67.5	61.3			62.7 70.6		63.4 71.2	03.4
≥ 1800 ≥ 1500		31.5		45.0 47.1	54.8 57.4	59.8 62.6	63.3	68.0 71.7	70.1 74.2	71.8 76.1		72.9	73.4 77.8		74.1 78.5	74.1 78.5
≥ 1200 ≥ 1000		35.2 35.7	42.9 43.4	30.8 51.5	61.5	65.9 68.4	73.8	76.6	79.3 81.8	81.2	81.7		83.1	83.8	1	63.8
≥ 900 ≥ 800		35.7 35.7	43.4 43.6	51.5 51.9	62.6	68.4 69.2	72.7	79.5 81.2	82.3	84.4	84.9	85.7 87.3	86.4 88.0	87.1 88.7	87.1 88.7	57.1 68.7
≥ 700 ≥ 600		35.7 35.7	43.6 43.6	52.1 52.1	63.8 63.8	69.8	74.3 74.5	81.8	84.6 85.3	86.6 87.5		88.1 89.1	88.8	89.5 90.5		69.5
≥ 500 ≥ 400		35.8 35.8	43.7 43.7	52.2 52.2	64.0 64.0	70.2 70.3	75.1 75.2	83.2 83.9	86.6 87.9	89.1 91.1	89.9 92.4		91.7	92.4 95.1	92.4 92.1	92.4 95.1
≥ 300 ≥ 200		35.8 35.8	43.7	52.2 52.2	64.0	70.3 70.3	75.2 75.2	83.9 83.9		91.8	93.8	95.0 95.4	96.5 97.2			97.7 99.0
≥ 100 ≥ 0		35.8 35.8		52.2 52.2		70.3 70.3	75.2 75.2	83.9 83.9				95.4 95.4			99.0 99.3	99.2 100.0

2

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFUPT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	IBILITY (STA	ATUTE MILI	ESI	- -			· -		
·FEET.	≥:0	≥6	≥5	≥ 4	≥3	≥2¹2	≥ 2	ב'וב	≥1'4	≥1	≥ ,²	≥'•	≥ '2	≥ 5 16	2.	≥0
NO CEILING ≥ 20000		8.5 12.1	9.7 14.2	11.1	12.6	14.3 20.3			16.5 24.1	17.0 25.1	17.1 25.6	17.? 25.°	17.5	17.6 25.4	17.6 26.4	
≥ 18000 ≥ 16000		12.2	14.3	16.3	18.5 18.5	20.6			24.5 24.5	25.5 25.5	25.9 25.9	26.3	26.5	26.7 25.7	26.7 26.7	26.7 :6.7
≥ 14000 ≥ 12000		12.6 13.1	14.7 15.4		20.6	21.6	24.1	25.1	25.5 26.6	27.8	27.0 28.2	27.3	27.5 26.8	27.8 29.0	27.5 29.0	29.0
≥ 10000 ≥ 9000		14.4	16.9			24.8 25.8	2c.3 27.5	29.3 29.7	28.9 30.4	31.5	30.5	30.9	31.1 32.6	31.3	31.3	2.3د
≥ 8000 ≥ 7000		15.1	17.9 18.4	21.7	24.9	26.6	24.7	30.7	31.7 33.1	34.3	34.7	33.6	35.3	34.1 35.8	34.1 35.0	34.1 35.8
≥ 6600 ≥ 5000		16.3	21.3	22.6	28.8	29.0 31.9	31.4	33.8 36.9	34.9 37.9	39.3	36.6 39.8	36.9 40.1	37.1 40.3	37.6 40.8		40.8
≥ 4500 ≥ 4000		19.1 20.5 22.6	22.2 23.8 26.1	25.9 27.9 30.5		33.0 35.9	35.5	38.3	43.0	44.6		41.5 45.5	41.7	42.2 46.4 50.5	42.2 46.4 50.5	42.2 46.4 50.5
≥ 3500 ≥ 3000 ≥ 2500		27.3	31.1	36.0	42.5	46.6	41.8 49.4 54.9	45.7 53.7	47.0 55.1	48.6 56.7	49.3 57.4 63.9	57.7	50.1 58.2 64.7	58.7	58.7	58.7 65.3
≥ 2000		33.1	37.9	44.1	53.8 56.3	58.4	61.7	68.0 71.3	69.7	71.3	72.1	72.5	72.9	73.5		73.5
≥ 1500		36.7	41.9	49.3	60.2	65.1	68.7	76.1	78.1 81.5	80.2	81.3	85.5	82.5	86.7	83.1 86.7	t.3.1
≥ 1000		38.6	44.5	52.3	64.3		-,-	81.3	83.4	85.8	87.0	87.5	88.2	88.8	88.8	88.8
≥ 800		38.9	44.7	52.9		70.9	74.4	83.2	85.4	87.8	88.9	89.5	90.2	90.7	90.7	90.7
≥ 500		38.9	44.7	53.0 53.0		71.0	74.7	83.5	86.2	88.7	89.9	90.5			92.2	42.2
≥ 400		38.9	44.7	53.0		71.1	75.0 75.1			90.6	92.3	93.0				95.0
≥ 200		38.9		53.0	65.6		75.1 75.1	85.0 85.0	88.1	91.9	94.2	95.1 95.2	97.0	98.9	- 1	99.2
2 0		38.9			65.6	71.1	75.1	85.0	88.1		94.3					100.0

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1800-4000

CEILING							V \$1	BILITY ISTA	ATUTE MILE	S.						
(FEET)	≥10	≥6	≥5	≥4	≥3	≥2'2	≥ 2	≥1'2	≥1%	≥i	≥ '₄	≥',	≥ 7	≥5 16	≥ .	≥0
NO CEILING ≥ 20000		11.6 13.6	12.6	15.2	18.2		19.9	21.2	21.8	22.1	22.1	22.1 26.1	22.2	22.2	22.2	22.6
≥ 18000 ≥ 16000		13.8 13.8	15.2 15.2	18.1	21.7	22.8	23.5	24.9	25.7 25.7	26.1 26.1	26.1	26.7	26.3	26.3 26.3	26.3	26.6
≥ 14000 ≥ 12000		14.0 15.2	15.6	18.5	22.4	23.5	24.2	25.6	26.4	26.7	26.7	26.9	27.0	27.0	27.0	
≥ 10000 ≥ 9000		16.1 16.3	17.9	21.7	26.1	27.4 28.2	20.1	29.4 30.4	30.3	30.7	30.7	30.0	30.9	30.9	30.9	
≥ 8000 ≥ 7000		16.5 17.3	18.5	22.6	27.3 28.3	28.7 29.7	29.4	31.0	31.8 33.1	33.5	32.1 33.5	32.2 33.6	32.4	32.4	33.7	32.7 34.0
≥ 6000 ≥ 5000		18.9	21.0	25.2 27.8	30.4 33.6		32.8 36.2	34.7 38.1	35.5 38.9	36.2 39.6	36.3 39.8	36.4 39.9	30.5 40.0	36.5 40.0	36.5 40.0	36.9 40.3
≥ 4500 ≥ 4000		23.9 25.8	26.2 28.3	30.7 33.0	36.9 39.6	38.3 41.1	39.6 42.5	41.8 45.2	42.6 46.0	43.3 46.6	43.5	43.5	43.7	43.7	43.7 47.1	44.0 47.4
≥ 3500 ≥ 3000		27.9	30.7 36.2	36.0 42.1	42.8 50.0	44.4 52.0	45.8 53.7	49.1 57.1	50.1 58.1	50.9 59.0	51.1 59.3	51.3 59.7	51.5 59.8	51.5 59.8	51.5 59.8	51.8 00.1
≥ 2500 ≥ 2000		36.3 40.9	39.7 44.8	46.3 51.9	55.6 62.7	57.8 65.5	57.6 67.8	63.1 72.2	73.4	65.2 74.3	65.5 74.6	65.¤	66.0 75.1	66.0 75.1	66,0 75.1	56.3 75.4
≥ 1800 ≥ 1500		42.2	46.2	53.6 57.1	64.6	67.8 72.7	70.0 75.3	74.7 81.1	75.8 82.2	76.7 83.1	77.1 83.5	77.4 83.8	77.5 83.9	77.5 83.9	77.5 83.9	77.9 04.3
≥ 1200 ≥ 1000		45.1 45.2		57.9 58.9	70.8 72.6	76.3	77.1 79.0	83.4 86.1	84.7 87.5	85.6 88.4	86.0 88.8	86.3 69.1	86.4 89.2	86.4 89.2	86.4 89.2	36.7 39.6
≥ 900 ≥ 800		45.2 45.3	50.4 50.8	59.3 60.0	73.4	77.1 78.1	79.8	86.9 88.1	89.7	89.3 90.6	89.7 90.9			90.1 91.3	90.1	
≥ 700 ≥ 600		45.3 45.3	50.8 50.8	60.2	74.6	78.4 78.5	81.2 81.6	88.5	90.1		91.5 92.1	92.6	91.9 92.8	92.9		72.4 73.4
≥ 500 ≥ 400		45,3 45,3	50.8 50.9	60.2	74.8		81.6 81.7	90.1	91.8	93.4	93.7			94 • 2 94 • 8	94.8	
≥ 300 ≥ 200		45.3	50.9	60.3	74.8	78.8	82.0 82.1	91.2	93.1 93.4	94.9	96.4	97.2		97.9	97.9	
≥ 100 ≥ 0		45.3 45.3	50.9 50.9	60.3	74.8 74.8	78.8 78.8	82.1 82.1	91.2 91.2	93.4	95.3 95.3	96.4 96.4		97.8 97.9	98 • 1 98 • 2		98.8

USAF ETAC JUL 44 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE DES

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY (STA	ATUTE MIL	ES)						
(FEET)	≥10	≥6	≥5	≥4	≥3	≥2 7	≥?	≥1%	≧1'₄	≥1	≥ 14	≥'•	≥ ;	≥5 16	≥ '.	≥0
NG CEILING ≥ 20000		12.0 13.1	13.C	15.8	18.5	19.2	20.8	21.5		22.0		22.4	22.6 25.8		22.7	22.
≥ 18000 ≥ 16000		13.4		17.5		21.8		24.8	25.2	25.5 25.5		25.8 25.9	20.1	26.1 26.1	26.2	25.
≥ 14000 ≥ 12000		13.5	14.7	17.6	21.1	21.9	23.8	24.9		25.6 27.4	25.8	26.0	26.2	26.2	26.3	
≥ J000 ≥ 9000		16.5	18.0	21.9	25.8	26.9 27.3		30.2	30.6		31.1	31.2	31.5	31.5	31.0	31.
≥ 8000 ≥ 7000		17.1	19.0	22.9	27.1	28.2	30.1	31.9	32.2	32.6	32.8	32.9	33.1	33.1	_ •	33.
≥ 6000 ≥ 5000		21.2	23.5	27.4	31.8	33.1	35.1	37.3	37.8	38.4	38.7	38.2		39.0	39,1	39
≥ 4500 ≥ 4000		23.9 25.5	26.4		35.7		39.6	42.2	42.7		43.6	43.7	43.9	43.9	44.0	44
≥ 3500 ≥ 3000		27.9	30.8	35.5	41.5	43.0	45.6	47.3	49.8	50.4		50.8	51.0		51,1	51
≥ 2500 ≥ 2000		34.5	37.9	44.7	52.1	54.5	57.8		62.5	63.4	63.7	63.9	64.0	64.0	64.2	54
≥ 1800 ≥ 1500		39.9 41.7	43.6	51.8	61.6	64.7	68.1	72.7	73.4	74.3	74.6	74.7	74.9	74.9	75.1	75
≥ 1200 ≥ 1000		42.7	47.0	56.6	68.3	72.2	76.1	81.6	83.0		84.3	84.4	84.6	84.6	84.7	
≥ 900 ≥ 800		42.9 43.0	47.6 47.8		70.7	74.7	79.0	84.7	86.4		87.6	87.8	88.0	88.0		88
≥ 700 ≥ 600		43.0 43.0	47.8	•	72.5 72.7			87.2	89.2	90.2	90.6	90.8	91.0			91
≥ 500 ≥ 400		43.0 43.0	47.8 47.8		72.8	77.4 77.8							93.2	93.6 95.1	93.8 95.3	1
≥ 300 ≥ 200		43.0 43.0			73.3 73.3	78.0 78.0			93.6		95.5			97.6		
≥ 100 ≥ 0		43.0 43.0			73.3 73.3	78.0 78.0				95.3 95.3		96.4	97.1 97.2			

TOTAL NUMBER OF OBS_RVATIONS.....

CEILING VERSUS VISIBILITY

RHEIH-MAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0000-0200

CEILING							VIS	SIBILITY STA	ATUTE MIL	£S.						
∢FEET⊤	≥10	≥6	≥5	≥ 4	≥3	≥2'2	≥ 2	ביוב≤	≥1.	≥ì	≥ 34	≥'•	≥ 'ז	≥ 5 16	≥ .	≥0
NO CE'LING ≥ 20000		19.3		26.9 29.1	31.5 34.7	32.7 36.0	33.2		34.7	35.2 38.8		35.7	35.5 39.1	35.5 39.1	35.5 39.1	35.8 39.5
≥ 18000 ≥ 16000		20.7			34.7 34.7	36.0 36.0	30.5		38.2 38.2	38.8	39.0	39.0 39.0	39.1 39.1	39.1 39.1	29.1 39.1	9.5ر 9.5ر
≥ 14000 ≥ 12000		21.2	24.4	29.8		36.7 37.7	37.2		39.0 40.0	39.6 40.6		39.7 40.7	39.8	39.8 40.9	39.8 40.9	40.2 +1.2
≥ 10000 ≥ 9000		22.6	26.2			39.6 40.5	40.1 41.0	41.4	41.9 42.7	42.5 43.4		42.7	42.9	42.9	42.9	43.2 44.1
≥ 8000 ≥ 7000		23.4	27.1 28.4	33.3 34.8	, 1	41.0	41.5	42.7 44.6	43.2 45.1	43.9 45.9	44.1 40.1	44.1	44.2	44.2	44.2 45.2	44.6 46.6
≥ 6000 ≥ 5000		26.2		36.6 38.8		44.6 47.4	45.1	46.6	47.1 50.0	48.1 51.0	48.4 51.3	48.4 51.3	48.5 51.4	48.5 51.4	48.5 51.4	
≥ 4500 ≥ 4000		31.1	35.3 37.5		51.0 53.8	52.6 55.5	53.4 56.3	55.1 58.1	55.8 58.8	56.8 59.8	57.0 60.0	57.0 60.0	57.1 60.2	57.1 60,2	57.1 60.2	7.5د 0.5
≥ 3500 ≥ 3000		35.5 39.0			57.3 62.5	59.0 64.5	59.8 65.3	1	62.7 68.8	63.7 69.8	63.9 70.1	63.9 70.1	64.0 70.2	64.0 70.2	54.0 70.2	1 -
≥ 2500 ≥ 2600		41.6	49.7	59.0		69.3 72.9	70.7	73.7 77.4	74.6 78.3	79.3		75.9 79.1	75.9 79.7	75.9 79.7	75.9	00.1
≥ 1800 ≥ 1500		47.0	52.9	62.7	74.9	75.9 78.8			81.7 85.5	82.7 86.5		83.0 86.7	83.1 86.8	83.1 86.8		
≥ 1200 ≥ 1000		47.5	53.5	63.4	77.6		82.6	88.6			89.5 91.0		91.1	91.1	89.6 91.1	21.5
≥ 900 ≥ 800		47.5	53.4	64.4	73.6	82.6 82.8	85.0		91.0	92.0	92.4	92.0	92.5	92.1 92.5	92.1 92.5	
≥ 700 ≥ 600		47.5 47.5	53.8	54.7	79.1	83.2	85.3 85.6	91.0	92.1	93.2	93.6	92.9	93.7	93.7	93.0 93.7	94.1
≥ 50C ≥ 400		47.5	53.8	64.7	79.2	63.6	85.0	91.7	92.9	93.7 94.1		94.5	94.2	94.6	94.6	95.0
≥ 300 ≥ 200		47.5	53.8 53.8	64.7	79.3	83.7 83.7	86.1 86.1	92.9		95.7 96.0		96.2	96.4 97.2	97.5	96.5	98.0
≥ 100 ≥ 0		47.5			79.3 79.3	83.7	86.1 86.1	92.9				97.5	, -		98.0 98.7	99.0

TOTAL NUMBER OF OBSERVATIONS ___

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFURT 57-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY ST	ATUTE MIL	ES,						
(FEET)	≥10	≥6	≥ 5	≥4	≥3	≥2'7	≥ 2	≥17	≥1'4	≥1	≥ 14	≥',	≥ 7	≧ 5 16	≥ ′•	≥0
NO CEILING ≥ 20000		16.6 18.9	19.0		28.4 31.8	29.4 33.0		31.5 35.5	32.1 36.2	32.5 36.6	32.0 36.7	32.° 36.°	32.9 37.6	32.9 37.0	35.0 77.1	33.3
≥ 18000 ≥ 16000		18.9	21.3	26.1 26.1	31.8 31.8	33.0 33.0	33.6	35.5 35.5	36.2 36.2	36.6 35.6	36.7 36.7	36.8 36.8	37.0 37.0	37.0 37.0	37.1 37.1	27.3
≥ 14000 ≥ 12000		19.0 19.6	21.5	26.2 27.2	31.9 32.9	33.1 34.1	33.7	35.6 35.6	36.4	36.7 37.7	36.8	37.0	37.1 38.1	37.1 38.1	37.2 38.2	ر 7.5 8.5
≥ 10000 ≥ 9000		20.8	25.9	28.8 29.8	34.5 35.7	35.9 37.1	36.5	39.6	39.3	39.8 41.1	40.0 41.2	40.1 41.2	40.2 41.4	40.2 41.4	40.3	40.6 41.8
≥ 8000 ≥ 7000		21.5	24.6	30.0 31.4	36.0 37.7	37.3 39.1	38.0	40.1 41.8	40.8	41.3	41.4	41.5	41.7	41.7		
≥ 6000 ≥ 5000		24.8	27.9 30.8	34.4 38.1	40.9 45.0	42.3 46.4	42.9	45.C	45.8 50.4	46.3 50.9	46.5 51.1	46.7 51.2	46.8 51.5	46.8 51.5	40.9	47.1 51.9
≥ 4500 ≥ 4000		30.1 32.1	33.7 36.4	41.6	49.1 52.5	50.5 54.0	51.4 55.0	54.0 57.6	54.7 58.3	55.2 58.8	55.5 59.1	55.6 59.2	55.6 59.4	55.8 59.4	56.0 59.6	56.2
≥ 3500 ≥ 3000		35.2	39.6 43.7	47.8 52.5	56.0 60.9	57.6 62.5	58.6	61.2	61.9	62.4	62.7	62.¤	63.0	68.2	53.2 68.4	53.4
≥ 2500 ≥ 2000		41.1	46.2	55.5 58.7	64.6	66.6	67.9	71.3	72.3	72.8 78.8	73.1	73.2	73.4 79.4	73.4	73.6	73.8
≥ 1800 ≥ 1500		44.0 45.0		59.1 60.2	70.1 72.0	73.0 75.1	74.8 77.0	79.4	80.5	81.0 83.5	81.3	81.4	81.6	81.6	81.8	52.5
≥ 1200 ≥ 1000		45.9	51.0 52.	61.5	73.6	77.0 78.0	79.0 80.1	84.C 85.5	85.1 86.7	85.7 87.3	86.0 87.6		86.4	86.4	86.5	85.7 38.3
≥ 900 ≥ 800		46.3	52.2 52.2	62.8	75.1 75.4	78.7	50.8 31.1	86.7	87.3 88.1	88.0	88.2	88.3	88.6	89.7	88.7	59.0
≥ 700 ≥ 600		46.3	52.2 52.2		75.9	79.7 79.9	81.9 82.5	37.5 88.6	88.8	89.8 91.2	90.1	90.3	90.6	90.6	92.1	20.9
≥ 500 ≥ 400		46.3	52.2		75.9 76.2	80.3 80.8	83.3 84.4	89.5 91.3	91.2 93.1	92.6	92.8	93.1	93.3	93.3 95.2	95.3	95.5
≥ 300 ≥ 200		46.3 46.3	52.2 52.2		76.3 76.3	81.0 81.0	84.6 84.6	91.8	93.9 93.9	95.4 95.7	95.8 96.5	96.0	96,3	96.3 97.1	96.4 97.3	96.7 97.8
≥ 100 ≥ 0		46.3 45.3			76.3 76.3	81.0 81.0	84.6 84.6	91.8 91.8	93.9	95.9 95.9	96.8 96.8	97.3	97.5 97.5			99.0 100.0

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFURT 07-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

					(11)		OURL	000	EINTAI	10143)						
CEILING							VIS	BILITY ST	ATUTE MILI	ES						
-FEET	≥10	≥6	≥5	≥ 4	≥3	≥2 7	≥?	≥1;	≥1.	≥1	≥ ;₄	≥'₁	≥ :	≥5 16	≥ .	≥0
NO CEILING ≥ 20000	-	10.0							27.3	28.3	28.4	28.5			28.J 32.0	_
≥ 18000 ≥ 16000		11.7	14.3	18.2	23.4	25.3	25.9	30.7	31.1	32.1	32.3	32.4	32.0	32.8	32.0	32.3
> 14900 ≥ 12000		12.0	14.5	18.3	23.5	25.5		30.9	31.4	32.4	32.5	32.5	32.9	33.0		33.0
≥ 10000 ≥ 9000		14.1	17.1		27.6	29.9	31.5	35.7		37.5	37.6	37.7	37.9	38.2	38.2	58.2
≥ 8000 ≥ 7000		14.5 15.1	17.6	21.9	28.3	30.7	32.3	36.6	37.3	38.4	36.5	38.7	38.9	39.2	39.2	39.2
≥ 6000 ≥ 5000		16.1		24.0	30.8	33.1	34.7	39.3	40.0	41.2	41.4	41.5	41.8	42.0		42.0
≥ 4500 ≥ 4000		19.9		29.0	36.7	39.3	41.2	46.2	47.2 52.3	48.3	48.7	48.2	49.1	49.3	49.3 54.4	
≥ 3500 ≥ 3000		25.1	30.0	35.5	44.0	46.7	49.1	54.6	55.6 60.4	56.9	57.2	57.4	57.0	57.8	57.8	57.8
≥ 2500 ≥ 2000		29.7 31.9		41.9	51.3	54.4	57.7	66.6	65.9 71.7	67.4	67.9	68.0	63.2	68.5	68,5	68.5
≥ 1800 ≥ 1500		32.6		46.6	58.0	61.6	65.1	72.8	74.3 78.6	76.0	76.6	76.8	77.0	77.3	77.3	77.3
≥ 1200 ≥ 1000	-	34.5	42.0	50.3	62.9	66.9	71.1	80.0	82.0 83.1	83.5	84.4	84.5	84.5	85.0	85.0 86.2	85.0
≥ 900 ≥ 800		34.7		51.1	63.9	68.1		82.6	84.7	86.5		87.3	87.5		87.8 88.5	
≥ 700 ≥ 600		34.7			64.4				86.7 87.6	1	89.2 90.0	- 1			90.0	
≥ 500 ≥ 400		34.7 34.7	42.4				74.9 75.0		88.9 89.6			92•1 93•4			94.2	-
≥ 300 ≥ 200		34.7 34.7	42.4	51.2	64.5	69.2 69.2	75.0 75.0	87.1 87.1	90.6	93.2 93.4	94.8 95.1	95.1 95.4	95.7	97.2	96.5 97.2	- 1
≥ 100 ≥ 0		34.7		31.2	64.5	69.2	75.0	87.1	90.9	93.4	95.1	95.4	96.3		98.0 98.4	

TOTAL NUMBER OF OBSERVATIONS.

CEILING VERSUS VISIBILITY

RHEIN-HAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	IBILITY STA	ATUTE MIL	ES						
(FEET)	≥10	≥6	≥5	≥4	≥3	≥2′2	≥ 2	≥1 ?	≥1.	≥1	≥ ¾	≥',	≥ ;	≥ 5 16	≥ .	≥0
NO CEILING ≥ 20000		13.1 16.7		16.0	21.2	27.6	24.4					27.0 34.5	27.1	27.1 34.9	27.1	27.2
≥ 18000 ≥ 16000		16.7	18.3 18.3	20.7	27.5	29.3 29.5	31.4	34.0	34.3	34.9	34.9	34.0		35.0 35.1	35.0 35.1	ر 5.1 3.50
≥ 140C0 ≥ 12000		17.1	18.7	21.2	28.2 30.6	30.1	32.2	34.9	35.1	35.8	35.8	35.4	35.9 38.4	35.9 38.4	35.9	25.0
≥ 10000 ≥ 9000		18.8	,	24.8 25.4	33.3	35.5 36.4	37.7 35.6	40.7	41.0 41.8	41.6	41.6	41.5	41.7	41.7	•	41.
≥ 8000 ≥ 7000		19.3	22.0	25.5	34.2	36.5 37.4	38.7	42.0	42.2	42.8			42.9	42.9 44.1	42.9 44.1	43.
≥ 6000 ≥ 5000		20.2		27.1	36.3		41.5		45.3	45.9	45.9	45.c	40.0	46.0		46.2
≥ 4500 ≥ 4000		22.5		30.0	39.7 43.8	42.6	45.8	49.6	50.2	51.0	51.C	51.^ 56.4	51.1	51.1	51,1	21.0
≥ 3500 ≥ 3000		26.1			46.3	49.5 53.1	53.6	57.5	58.4		59.5	59.5		59.7		59.
≥ 2500 ≥ 2000		30.3 33.0		42.1		- 1		68.9	70.0	71.2	71.3	71.3	71.4	71.4	71.4	71.
≥ 1800 ≥ 1500		33.5 34.4			60.4	65.1	69.9	75.5	76.7	76.0	78.3	78.3	78.2	78.5 84.2	78.5 84.2	
≥ 1200 ≥ 1000		34.4		49.1 50.0	64.9	69.9 72.0	75.0	63.4		86.1		86.6	86.8			-
≥ 900 ≥ 800		35.0 35.1	41.2	50.1 50.2	66.8	72.2	78.2	86.0	87.5		89.4			69.6	89.6	89.7
≥ 700 ≥ 600		35.4 35.6	41.5	50.5 50.9	67.7	72.8 73.1	79.3	87.6	89.2	90.6		91.6	91.7	91.8	91.8	
≥ 500 ≥ 400		35.6 35.6		50.9	67.7	73.3	80.0	89.0	90.7	92.2		93.6	93.7		93,8	93.5
≥ 300 ≥ 200		35.6 35.6	41.7	50.9		73.4		89.6	91.5	93.3		96.0	96.8		97.5	
≥ 100 ≥ 0		35.6 35.6		50.9 50.9	67.7	72.4	80.1	89.6	91.5		95.3	96.9	97.5	98.8	93.9	99.8

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 07-76

FE

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1200-1400

CEILING							VIS	BILITY IST	ATUTE MILE	ES						
FEET	≥10	≥6	≥5	≥4	≥3	≥2 2	≥ ?	≥11'7	≥1'₄	≥1	≥,4	≥`•	≥ ;	≥5 16	≥.	≥0
NO CEILING ≥ 20000		15.8 21.2	17.5 23.1			23.7 32.0	24.1 33.0	24.7 34.4	24.7 34.4	25.0 34.7	25.0 34.1	25.0 34.7	25.0 34.7	25.0 34.7	34.7	25.0
≥ 18000 ≥ 16000		21.5	23.4		31.1 31.1	32.3 32.3	33.3 33.3	34.7	34.7	34.9 34.9	34.9 34.9	34.0	34.9 34.9	34.9 34.9	34.9 34.9	۶4.9 4.9ر
≥ 14000 ≥ 12000		22.0	25.3	28.1 29.9	31.8 34.5	33.3 35.8	34.0 36.6	38.1	35.4 38.1	35.7 38.4	35.7 38.4	35.7 38.4	35.7 38.4	35.7 39.4	35.7 38.4	7.50 4.6ر
≥ 10000 ≥ 9000		24.5	27.8		38.9	38.6 49.1	39.6 41.1	42.7	41.1	41.4 43.0	43.0	41.4	41.4			
≥ 8000 ≥ 7000		25.7	28.6		39.6 40.4	40.9	42.0 42.7	44.6	43.7	44.8			44.0	44.8		44 . P
≥ 6000 ≥ 5000		28.4 30.7	31.2	36.8 39.6	43.4	44.6	45.7		47.7 50.9	48.0 51.2	48.0 51.2	48.0 51.2	48.0 51.2	48.0 51.2	48.0 51.2	1.2ر
≥ 4500 ≥ 4000		31.2		40.2 44.0	51.6	48.6 53.3	49.8 54.8		51.8 57.1	52.0 57.4	57.4	52.0 57.4	52.0 57.4	52.0 57.4	52.0 57.4	27.4
≥ 3500 ≥ 3000		38.5 42.5	47.2	48.3 53.8		57.8 64.0	59.4 65.6	68.7	61.9	68.9	68.9	62•1 68•9	68.9	68.9	62.1 68.9	را 201 809
≥ 2500 ≥ 2000		45.6	54.7	58.0 62.6		68.6 74.4	70.2		73.8	74.2 80.6			74.2 80.6	74.2 80.6	74.2 80.6	
≥ 1800 ≥ 1500		49.8 50.7	57.0	64.0	76.9		79.1	82.9 87.2						83.7	88.3	
≥ 200 ≥ 1000			57.4	66.6	79.0	81.1 82.4	94.8 86.2	90.7	89.6 91.4	90.6 92.5	92.8		90.8	93.0	93.0	93.0
≥ 900 ≥ 800		51.2	57.6	67.2	79.3	82.5 82.6	86.3 86.5	91.3	92.2	92.9 93.5	93.8		93.4	94.0		14.0
≥ 700 ≥ 600		51.2 51.2	57.6	67.2	79.3	82.9	86.7	91.8		94.4	94.9		95.3	95.3	95.3	95.3
≥ 500 ≥ 400		51.2 51.2	57.6 57.6	67.3	79.4		80.8 86.8	91.7			96.3		96.0 97.1	97.3	96.0	77.3
≥ 300 ≥ 200		51.2		67.3		83.0		91.9			97.4	97.9	98.9	99.4		99.4
≥ 100 ≥ 0		51.2 51.2		67.3 67.3			86.8 85.8	91.9 91.9	93.5 93.5	96.5 96.5		97.9 98.1	99.9		99.5 100.0	

TOTAL NUMBER OF OBSERVATIONS

80

USAF ETAC JUL 44 0-14-5 (OL A) MEMOUS EDITIONS OF THIS FORM, ARE OBSOLE

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFURT (7-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VISI	SILITY ST.	ATUTE MILI	\$,
(FEET)	≥10	≥6	≥5	≥ 4	≥3	≥2'≎	≥ ?	≥} ?	≥1.	≥ા	≥ .	≥'₁	≥ ;	≥5 16	≥.	≥0
NO CEILING ≥ 20000		17.3 23.0	18.0 24.7	19.4 26.5	23.7 32.1	24.6 33.1	20.0 35.4	27.3 37.1	27.6 37.6	27.7 37.7	27.7 37.9	27.7 37.9		27.8 39.1	38.1	
≥ 18000 ≥ 16000		23.1 23.1	24.8		32.3 32.3	33.4 33.4	35.6 35.6	37.3	37.8 37.8	37.9 37.9	38.2 38.2	38.2 38.2	38.2 36.2	38.3 39.3	38.3	38.3 39.3
≥ 14000 ≥ 12000		23.5 25,5	25.3 27.3	27.1 29.3		34.2 37.5	30.6 39.8	38.4 41.9	39.1 42.5	39.3 42.8		39.4 43.0	39.0 43.0	39.7 43.1	39.7 43.1	39.7 43.1
≥ 10000 ≥ 9000		27.1 27.7	29.0 29.8		37.9 38.9	39.3 40.4	41.7	43.9 45.1	44.5 45.7	44.7	45.0	45.7	45.0 46.2	45.4	45,1 46,4	
≥ 8000 ≥ 7000		28.2 29.4	30.4 30.7	32.8 33.0	39.8 40.2	41.7	43.6	46.4	47.0	46.8	47.1 47.5	47.5		47.5		
≥ 6000 ≥ 5000		31.4 34.0	34.1 36.8	36.7 39.7	44.3	46.0	48.3 52.2	50.9 54.9	51.7 55.7	52.0 56.1	52.3 56.4	52.3 56.4	50.4	56.5	52,4 56.5	6.5ز
≥ 4500 ≥ 4000		35.8 40.7	38.7 43.5	41.7	50.2 55.6	52.0 57.6	54.5 60.2	57.2 63.3	58.1 64.3	58.5 64.8		58.7 65.7		58.8 65.1	58.8 65.1	35.1
≥ 3500 ≥ 3000		43.4	47.0 50.0	50.3 54.6		61.6 66.5	64.3	67.4 72.8	73.8	68.9 74.3	69.1 74.5	69•1 74•5		69.2 74.7	59,2 74.7	74.7
≥ 2500 ≥ 2000		48.7 51.3	53.5 56.4	57.6 61.1	67.7 72.2	70 • 1 74 • 7	72.9	76.9 82.1	77.9 83.1	78.4 83.7	78.6 83.9	78.4 83.9	78.6 83.9	78.7 84.1	78.7 84.1	78.7 24.1
≥ 1800 ≥ 1500		51.9 52.7	57.2 58.2		73.3 75.0	76 • 1 78 • 0	79.6 82.1	84 • 1 87 • 4	85.0 86.4	85.7 89.1	85.9 89.4	85.9 89.4	89.5	86.2 89.6	86.2 89.6	59.6
≥ 1200 ≥ 1000		52.9 52.9	58.6 58.6		75.6 76.0	78.7 79.1	83.7 84.1	89.4 90.1	90.5	91.2		91.5 92.6	92.7	92.8		
≥ 900 ≥ 800		52.9 53.0	58.6 58.7	64.0	76.0 76.1	79.1 79.2	84.1		91.8 92.1	92.8	93.4 93.4					33.8
≥ 700 ≥ 600		53.0 53.0	58.7 58.7	64.0	76.1 76.1	79.5 79.5	84.5 84.7	91.5 91.7	92.8	93.9	94.4	94.5	94.8	94.9 95.2	95.2	95.2
≥ 5 °0 ≥ 400		53.0 53.0	58.7 58.7	64.0	76.3 76.3	79.6 79.6	84.8	92.1	93.4 93.4	94.8 95.2	95.4		96.2		96.5	96.5
≥ 300		53.0 53.0	58.7 58.7	64.0	76.3 76.3	79.6 79.6	84.8 84.8	92.2	93.6 93.6	96.0 96.0	96.8	97.4	98.3	98.9	98.9	98.9
≥ 100	L	53.0 53.0	58.7 58.7	64.0	76.3 76.3	79.6 79.6	84.8 84.8	92•2 92•2	93.6 93.6	96.0 96.0	96.8 96.8					99.0

TOTAL NUMBER OF OBSERVATIONS.

USAF ETAC FORM 0-14-5 (OL A) MEMOUS EDITIONS OF THIS FOR

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY ST	NIM ATUTA							
ree1	≥10	≥6	≥5	≥4	≥3	≥2 ?	≥ 2	≥1,	≥1.	≥1	≥ ••	≥`•	≥ ,	≥418	≥.	≥0
NO CEILING ≥ 20000		20.9	26.1	29.8	35.5	32.5 37.1	33.1 37.9	33.9 39.2	34.1 39.4	34.2 39.6	39.0	34.2	34.2 39.6	39.6	34.2 39.0	34.4
≥ 18000 ≥ 16000		24.6	26.1		35.5	37.1 37.1	37.9 37.9	30.2	39.4 39.4	39.6 39.6	39.6	39.4	39.6 39.6	39.6	39.0 39.6	39.7 39.7
≥ 14000 ≥ 12000		25.0	26.5	33.5	36.3	38.1 41.2	38.9 4∠.0	42.4	40.5	40.7 43.8	40.7	40.7 43.°	40.7 43.8		40.7	43.9
≥ 10000		28.6		35.2 35.5	41.8	43.4	44.6	46.1	45.9 45.4	46.0		46.5	46.0 46.5		46.0 46.5	46.1
≥ 8000 ≥ 7000		29.6	32.3				45.4	48.2	47.1	47.2 48.6	48.0		48.6		47.2	,8.7
≥ 6000 ≥ 5000		34.9	33.5 37.5	42.6	50.4	47.6 52.5	48.5 53.5		50.2 55.3	50.3 55.4	55.4	50.3 55.4	50.3 55.4	55.4	50.3	55.5
≥ 4500 ≥ 4000		38.1	45.0	50.3		57.1 61.9		64.5	64.5	60.1 65.0	50.1 55.0	65.1	65.0		50.1 65.0	35.1
≥ 3500 ≥ 3000		44.1	50.6		66.1	65.5 69.2	70.6		68.5 72.4	68.6 72.6	72.6	68.6 72.4	72.6	72.6	72.0	72.7
≥ 2500 ≥ 2000 ≥ 1800		48.9 52.2 53.5		64.6	71.1 75.4 76.9		85.6		77.8 82.6	77.9 82.7	82.7	82.7	77.9 82.7	77.9 82.7	77.9 82.7	78.0 32.9
≥ 1800 ≥ 1500 ≥ 1200		54.8	60.6	68.2		80.6 84.1 86.2	85.7	87.3	87.9	84.3 88.1 91.6	88.1	84.7	84.3	84.3 88.1 91.7	84.3	38.3
≥ 1000		55.7 55.7	61.6	69.6	82.4	87.0	89.5 89.6		91.3 93.1 93.4	93.3	93.3	91.6 93.3 93.7	91.7 93.4 93.8	93.4	91.7 93.4 93.8	93.9 93.9
≥ 900 ≥ 800 ≥ 700	·	55.9	61.7	69.7	82.7	87.3 87.5	90.1	92.6 93.1 93.6	94.4	94.2	93.7 94.2	94.2	94.3	94.3	94.3	95.3
≥ 600		56.0	61.8	69.8	83.1	87.6 87.8	90.7	93.8	94.7	95.3		95.2	95.4	95.4	95.4 96.0	
≥ 400		56.0	61.8	69.8	83.1	87.8	91.0	94.4	95.3	96.2	96.2	96.2	96.3	96.3	96.3	
≥ 200		56.0 56.0	61.8	69.8	83.1	87.8	91.0	94.5	96.2	97.7	97.7	93.1	98.3	98.4	98.4	99.0
٥ ٤		56.0						94.8					99.1		99.4	1.0.0

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	IBILITY STA	ATUTE MIL	ES						
(FEF;	≥10	≥6	≥5	≥4	≥3	≥2'≎	≥2	212	≥1.	≥1	≥ ′4	≥>>	≥ ;	≥5 16	≥ .	≥0
NO CEILING ≥ 20000		22.9 25.1	24.1	28.0 31.2		34.6 39.1	35.3 38.7	35.6 40.3	37.2 41.1	37.3 41.2		37.5 41.4	37.5 41.4		37.5 41.4	
≥ 18000 ≥ 16000		25.1 25.1	26.9		37.0	38.1 38.1	38.7 38.7	40.3	41.1 41.1	41.2 41.2		41.4	41.4 41.4	41.4	41.4	41.6 41.5
≥ 14000 ≥ 12000		25.6	27.4	31.7 33.8		38.6 41.2	39.2 41.9		41.6 44.3	44.4		41.9	41.9 44.6	44.5	44.5	44.8
≥ 10000 ≥ 9000		28.0 25.6		36.7	43.9	43.8 45.2	44.4	47.5	46.9 48.5	49.6		47.1 48.7	47.1 45.7	47.1 48.7	47.1	+9.0
≥ 800C ≥ 7000		28.9		37.3 38.1	45.4	45.9		49.2	49.3 50.3	50.4	50.0			50.6		50.8
≥ 6000 ≥ 5000		31.0	34.0 36.4	39.9 42.7	50.3	48.7 51.9			52.3 55.7	52.4 55.8	55,9	52.5 55.9		55.9	55.9	56.2
≥ 4500 ≥ 4000		40.0	40.1	7.7.0	58.6	56.7 <u>00.6</u>		63.3	60.5		54.6	60.7 64.6				
≥ 3500 ≥ 3000 ≥ 2500		44.8	46.3			64.4		70.5	68.2 71.6	71.7	71.8	71.8	71.8	71.8	58.4 71.8	72.1
≥ 2500 ≥ 2000 ≥ 1800		47.0 51.2		58.6 63.9	75.0	71.5		31.5	75.8 82.7	75.9 82.9 85.6	33.5	76.0 83.0	76.1 83.1 85.8	76.1 83.1	76.1 83.1	76.4 =3.4
≥ 1500 ≥ 1500	<u></u>	52.3 53.0			79.2	80.2 82.3		86.8	85.3 88.4 91.6	88.7	88.9	92.5		89.0	89.6	39.2
≥ 1000 ≥ 000		53.9 53.9	58.1	68.8	83.0	86.2	87.8	91.3	92.9	93.3	93.4	93.4		93.5	93.5	
≥ 700	<u> </u>	53.9	58.3		83.5	85.7	88.4		93.6	94.0	94.1	94.1	94.2	94.2	94.2	
≥ 600		54.0	58.5	69.3	83.7	87.0 87.1		92.8	_ !	94.9	95.0	95.7	95.1	95.1	95.1	45.3
≥ 400		54.0	58.5	69.3	83.7	87.1 87.1	89.0	93.1	95.1	95.5	95.6	95.7	95.8	95.8	95.8	96.1
≥ 200		54.0	58.5	69.3	83.7	87.1	89.0	93.4	95.8	96.8	97.4	97.7	97.8	97.9	98.2	38.8
2 0		54.0		69.3	1 1 7 1	87.1	89.0			96.8					•	100.0

TOTAL NUMBER OF OBSERVATIONS

817

USAF ETAC 24 0-14-5 (OL A) MENOUS EDITIONS OF THIS FORM

CEILING VERSUS VISIBIL!

RHEIN-MAIN APT GERMANY/FRANKFURT 57-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VISI	BILITY (ST	ATUTE MILE	'S ₁						
(FEET)	≥10	≥6	≥ 5	≥4	≥3	≥ 2 ⅓	≥?	215	≥1.	≥1	- 4	≥'₃	≥ 7	≥5 16	≥ .	≥0
NO CEILING ≥ 20000		25.9			37.5	38.4	33.7	39.1	39.4	30.6	79.6	39.6	39.0	39.7	39.7	7 ، 9ر
 		29.0			42.0	44.3	44.8	45.4	45.6	45.9	45,3	4" • 9	45.5	46.0	46. U	40.0
≥ 18000 ≥ 16000		29.0		37.1	42.6	44.3	44.5	45.4	45	45.9	45.7	45.0	45.9	46.0	40.0	46.0
L!		29.0	31.9	37.1	42.0	44.3	44.8	45.4	45.6	45.9	45.	45.3	45.9	45.0	46,0	30.0
≥ 14000 ≥ 12000		29.2			42.0	44.6	45.0	45.6	45.9	46.1	46.1	46.1	40.1	46.2	45.2	46.2
		30.5		39.2	44.7	46.8	47.4	48.2	48.5	48.7	48.7	49.7	48.7	48.8	40.0	48.8
≥ 10000		32.2		41.4	46.9	49.1	49.3		50.8	51.1	51.1	51.1	51.1	51.2	51.2	2،1ز
i		32.7	36.4		47.5		50.7	51.5	51.8	<u>0.52</u>	52.0	52.0	52.0	52.1	52,1	2.1
≥ 800C ≥ 7000		33.3	37.1	42.0			51.4		52.5	52.7	52.7	52.7	52.7	52.8	52,0	
		34.9		45.0	50.0	52.7	53.4		54.5	54.7	54.7	54.7	54.7	24.8		
≥ 6000		37.5	. ••	48.5	54.6		57.6	58.4	58.6	58.9	58.9	· · ·	53.9	59.0		29.0
		40.0	44.7	52.1			61.3		62.4	62.6	62.6		62.6			
> 4500 ≥ 4000		43.6					20.1	66.9		67.4		1	67.4		i	
<u></u>		47.3	52.5				71.6		+	73.0			73.0			73.2
≥ 3500		10.5				74.5	76.2	77.3	77.5	77.8			77.8	77.9	77.9	1
		53.3					81.1		82.4	82.6			82.5		82.7	2.7
≥ 2500 ≥ 2000		55.3	61,7	71.5		81.6	33.7			85.3		1	85.3			15.5
		58.6						90.3		90.8						90.9
; ≥ 1600		59.5		77.3	85.8	- 1	96.4	91.7	92.0	92,2	92.2		92.2	92.3	92.3	2.3
<u> </u>		30.9		79.7			43.1	94.4	94.7	94.9			94.9			
≥ 1200		61.5		80.9		92.8	9:.0	96.3	96.6	96.8			90.8			96.9
		61.6			90.3		95.5	96 · B		97.3						77.4
≥ 900 i ≥ 800 i		61.0		81.q	90.3		95.7	97.0	97.3	97.5		1	97.5	97.6		
		61.6			90.4		96.2		97.9	98.1		98.1	98.1	98.2	98.2	98.2
≥ 70° ≥ 660		61.6	68.9	81.1			96.2	97.8	98.0	98.2	98.2	- 1	98.2	95.3		98.3
		61.6		81.1	90.5		96.5		08.3	98.6					98.7	96.7
> 500 ≤ 400		61.6	1	81.3	90.8		96.7	99.3	98.0	98.8	98.8		98.8			
		61.0	68.9	81.2						99.1	99.1	79.1	99.1	99.2		19.2
≥ 700		1 01.5	68.9	81.2			97.0	98.8	99.2	99.4	99.4		99.4	99.5	99.5	99.5
		<u> 61.6</u>		81.2			97.0						99.4	99.5		99.5
! ≥ 100		ole6	1 1	81.2						99.4		1	99.6			99.8
≥ ^		43.6	68.9	81,2	91.0	94.4	97.0	98.8	99.2	99.4	99.4	99.4	99.0	99.8	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS.

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							V:S	BILITY (STA	ATUTE MIL	ESI						
·FEET:	> 10	≥,	≥ 5	≥ 4	≥3	≥2'?	≥ 2	≥1'2	∡نا≤	≥ì	≥ ;₄	≥'•	≥ ÷	≥ 5 16	≥ .	≥0
NO CEILING		22.2	25.2	28.2	34.5	37.0	30.0	39.0	39.1	39.3	39.3	39.3	39.4	39.4	39.6	٠٦٠.
≥ 500CC		24.0	27.8	31.5	38.6	41.5	42.7	43.8	43.9	44.2	44.2	44.7	44.3	44.3	44.4	
≥ 18000		24.0	27.0	31.5	38.6	41.5	42.7	43.0	43.9	44.2	44.2	44.2	44.3	44.3	44.4	44
≥ 16000		24.1	27.9	31.7	38.8	41.6	42.8	43.9	44.0	44.3	44.3	44.7	44.4	44.4	44.5	44
≥ 14000		24.5	28.3	32.1	39.2	42.1	43.2	44.4	44.5	44.7	44.7	44.7	44.5	44.8	45.0	45
≥ 12000		25.7	29.6	33.7	+0.8	43.8	0 • ز4	46.1	46.2	46.4	46.4	46.4	46.6	46.6	46.7	46
≥ 10000		27.5	31.5		43.2	46.3	47.7	49.1	49.2	49.4	49.4	49.4	45.5	49.5	49.7	49
≥ 9000		28.4	32.6		44.5	47.6	49.1	<u>50.5</u>				50.8	50.9	3n.9	51.0	
≥ 8000		29.2	33.5		45.9	49.0	50.5	51.8		52.2	52.2	52.2	52.3	52.3	52.4	52
≥ 7000		30.4	34.6		47.4	50.6	54.1	53.6		53.9	53.9	53.9	54.0		54.1	4ز
≥ 6000		33.0	37.4	(50.8	54.1	55.6	57.1	57.3	57.6		57.6	57.7	57.7	57.8	
≥ 5000		35.8	40.3	45.5	54.4							61.5	61.6	61.6	61.7	51
≥ 4500 ≥ 4000		38.2	42.7	48.1	57.0	60.4	62.0	63.6			64.1	64.1	64.2	64.2	64.3	
		40.6	45.8		61.1	64.6					د.68	68.5	68.6		68.7	ა8
≥ 3500 ≥ 3000		43.0	48.5	55.2	65.0	68,6	70.3	72.0	72.2	72.5	72.5	72.5	72.6	72.6	72.7	72
		45.3	51.3		6107	72.5	74.4				76.7	76.7	76.8		76.9	- <u>-</u>
≥ 2500 ≥ 2000		47.5	53.4	62.0	72.4	76.5	78.8	80.7	51.0		81.2	81.2	81.3	81.3	81.4	31
		49.8	56.2		76.9	81,2	83.7	85.9		86.4		86.4		86.5		
≥ 1800 ≥ 1500		51.3	57.9	1	79.2	83.5	86.C	88 - 2	88.4			88.6	86.8	88.8		59
		53.4	60.1	70.4	82.3	86.9			92.0			92.2	92.3			2
≥ 1200		54.2	61.2	72.6	84.9	89.6		94.5			95.1	95.1	95.2	95.2	95.3	
		54.2	61.6	73.1	85.4	90.5		95.6			96.1	96.1	96.2		96.5	
≥ 900 ≥ 800		54.2			85.7	90.8	93.5	96.0				95.4	96.6		96.7	16
		54.2	61.6		85.9	91.1	93.9	96.6				97.0	97.1	97.1	97.2	37
≥ 700 ' ≥ 600		1 7 7 7 7 1	61.6		86.1	91.4	94.3	90.9	_		97.4	97.6	97.5	97.5		
		54.2			86.1	91.4	94.4		97.5		97.7	97.7	97.8		97.9	
≥ 500 ≥ 470		54.2			86.2	91.5	, ,	97.5				98.2	98.3	_	98.5	, , -
			61.6		86.2		94.8	97.6				98.3	98.4	98.4		
≥ 300 ≥ 200		54.2				92.0						99.3			99.5	
						92.0						99.3	99.4	99.4		
≥ 100		54.2									1					i
		27.4	61.6	73.2	86.5	92.0	95.4	98.5	99.0	99.3	99.3	99.3	99.4	99.4	99.5	1100

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING			_				VIS	BILITY (STA	ATUTE MILE	: S.						
(FEST)	≥10	≥6	≥5	≥4	≥3	≥2'2	≥2	≥1%	≥1'₄	≥1	≥ 14	≥'•	≥ ?	≥5 16	≥ 4	≥0
NO CEILING ≥ 20070		13.4 14.8	16.0 18.2	19.1 23.2	25.3 30.9	28.0 33.7	23.5 35.5	37.7	33.5 40.8	34.0 41.4		34.3 41.7	34.3 41.7	34.3 41.8		34.4 +2.1
≥ 18000 ≥ 16000	! !	14.8 14.8	18.2	23.3 23.3	31.0 31.0	33.9 33.9	35.7 35.7	39.9 39.9	40.9 40.9	4].5 41.5	41.6	41.8 41.8	41.8 41.8	42.0	42.0 42.0	42.2 42.2
≥ 14000 ≥ 12000		14.8	18.4 19.9	23.6 25.8	31.6		36.3	40.6	41.6 44.8	42.2 45.3	42.3 45.4	42.5	42.5 45.7	42.5 45.8		42.9 +6.0
≥ 10000 ≥ 9000		17.8 18.0	21.7	28.0 28.5	37.9 38.0	42.0	43.2	49.3	9.3 50.5	49.8 51.1	49.9 51.2	50.2 51.4	50.2 51.4	50.3 51.5		0.5ر
≥ 8000 ≥ 7000		18.7	22.9		39.6 40.0	43.2	44.9 45.3	50.3 50.7	51.3 51.7	51.9 52.4	52.0 52.6	52.9 52.9	52.2 52.9	52.3		52.5 53.2
≥ 6000 ≥ 5000		20.2	24.6	31.5	42.2	45.3 49.5	47.6 52.3	53.0 57.8	54.0 56.8	54.8 59.6	55.0 59.8	55.7	55,2 60.1	55.3 60.2	55.3 60.2	55.6
≥ 4500 ≥ 4000		25.3	29.1 31.0	37.0 39.1	49.0 52.5		55,2 59.4	69.0	62.0	67.2	63.0	67.6	63.2	67.7	63.3	57.9
≥ 3500 ≥ 3000		27.1	33.0 35.0	44.4	55.8 59.2		62.9	68.6 72.9	70.0	70.8		71.2	75.5	75.6	75.6	75.8
≥ 2500 ≥ 2000		30.6 32.7 34.1	36.8 39.0	46.7 49.6 51.2	62.2	71.0	70.1	76.9 82.7	78.5 84.4	79.3 85.3		79.9 85.8	79.9 85.8	80.0	85.9	30.2
≥ 1800 ≥ 1500 ≥ 1200		35.2 36.0	42.0		67.7 70.1 71.4	72.9 75.3	76.6 79.1	84.8	86.6	90.6	90.9	91.1	91.1	91.2	01.2	38.5 91.5
≥ 1000		36.0 36.0	42.9	54.3	72.0 72.0	76.6	80.5	90.6	91.3 92.7	92.7	93.1	93.4	93.4	93.5 95.1	93.5 95.1	y5.3
≥ ?00 ≥ 800 ≥ 700		24.0	43.0	54.4	72.4	77.8	82.3	90 • 8 91 • 8	92.9	94.4 95.5 95.7	96.2	95.2	95.2	95.3	96.5	95.5
≥ 400		36.0 36.0	43.0		72.4	78.1	82.5	92.4	94.2	96.3		96.6	96.6	96.7		97.8
≥ 500 ≥ 400 ≥ 300		36.0 36.0		54.4 54.4	72.7	78.1 78.1	82.8 82.8	92.5	94.9	96.6 97.1	97.9	97.6	97.8 98.3	98.4	98.4	98.7
≥ 200		36.0	43.0	54.4 54.4	72.7	78.1 78.1	32,8 82.8	92.5	94.9	97.1 97.1	98.0 98.1	98.3	98.5 98.7	98.7		
≥ 100 ≥ 0		36.0 36.0	43.0 43.0	: _ : _ : _ : _ : _ : _ : _ : _ : _	72.7 72.7	78.1 78.1	82.8 82.8	92·5 92·5	94.9	97.1 97.1		98.5 98.7	98.7 98.8	99.0 99.1		99.7 100.0

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

7907-:100

CEILING					···		VISI	IBILITY (ST.	ATUTE MILE	S,						
18881	≥10	≥6	≥5	≥4	≥3	≥2¹5	≥ 2	≥11⁄2	≥1'.	≥1	≥ ′4	≥`•	≥ ′5	≥5 16	≥ .	≥0
NO CEILING ≥ 20000		19.4 24.5		26.4 33.3	32.8 40.8		35.7 44.1	36.8 45.5	36.9 45.8	37.0 45.9	37.0 45.9	37.0 45.0	37.0 45.9			37.6 45.3
≥ 18000 ≥ 16000		24.5 24.5	28.1	32.9 33.9			44.6 44.6	46.1 46.1	46.3 46.3	45.4	46.4 46.4	46.4	40.4 40.4	46.4 46.4	40.4 46.4	46.4
≥ 14000 ≥ 12000		24.8	29.4	34.4			45.4 47.8	46.9	47.1 49.5	47.2	47.2 49.6	47.2	47.2 49.0	47.2	47.2	47.2
≥ 10000 ≥ 9000		27.4	31.1	38.4	48.0	50.3	51.2 52.0		52.9 53.8	53.0 53.9	53.0 53.9	53.0 53.0	53.0 53.9	53.0	53.0 53.9	33.7 33.9
≥ 8000 ≥ 7000		27.9 28.1	32.4	39.0 39.5	49.5	51.9	52.5		54.4 55.4	54.5 55.6		54.5	54.5 55.7	54.5	54.3 55.7	54.5
≥ 6000 ≥ 5000		28.9 30.8	35.6	43.4	50.8 54.1	56.7	55.0 58.4		57.0 60.5	57.3 60.8		57.4 60.9	57.4	57.4	57.4 50.9	7.4 50.9
≥ 4500 ≥ 4000		32.0 35.4		49.5	61.4	64.2	60.8 56.3		62.9 68.5	68.9			69.0	69.0		
≥ 3500 ≥ 3000		37.6 40.9	46.9	55.9	69.5		70.1		72.4	72.7	72.8	72.2	72.8	77.3		
≥ 2500 ≥ 2000		44.6	53.6	63.6	79.4	82.7	80.9		18.6	89.2		83.9	83.9	89.4	83.9 89.4	33.9 29.4
≥ 1800 ≥ 1500		47.8 48.8 48.9	55.4		82.6	86.2	87.0 89.5	91.8	89.6 92.1	90.3	92.9	90.4	90.4	92.9	90.4	22.9
≥ 1200 ≥ 1000	<u> </u>	49.0	55.8	66.6	83.5	87.4	90.3	93.8	94.0	94.1		95.2	94.3	95.2	94.3 95.2	15.2
≥ 900 ≥ 800		49.4	56.1	66.8	83.9	88.3	91.8	95.1	94.3 95.5	95.4 96.5	96.7	95.6	95.6	96.7	95.6	
≥ 700 ≥ 600		49.3	56.1	66.9	84.3	83.8	92.4	96.0		98.0	98.2	98.2	97.3	98.2		97.3 98.2
≥ 500 ≥ 400		49.3	56.1	67.0 57.0	84.4	88.9		96.4		98.2 98.5	99.1	99.1	98.6	99.1	98.6 99.1	99.1
≥ 300 ≥ 200		49.3	56.1	67.0 67.0	34.4	88.9		96.4			99.3			99.7		94 . 8
≥ 100 ≥ 0		49.3		67.0 67.0		88.9 88.9					99.3 99.3		99.7	99.8 99.8		100.0

TOTAL NUMBER OF OBSERVATIONS... ..

883

USAF ETAC JUL 64 0-14-5 (OL A) MEVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFUPT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET:							vis	SIBILITY (ST	ATUTE MI	lES,						
reel;	≥10	≥6	≥5	≥4	≥3	≥2'2	≥2	≥1%	≥1'₄	≥1	≥ ¼	≥5,	≥ ′2	≥ 5 16	≥ .	≥0
NO CEILING ≥ 20000		26.2			33.3	33.8	34.2	34.2	34.3	34.3	34.3	34.3	34.3	34.3	34.5	34.
		32.9			42.7	43.6	44.3	44.5	44.6	44.6	44.5	44.4	44 6	44.6		1
≥ 18000 ≥ 16000		32.9	,	40.0	42.9	43.8			44.8	44.8	44.3	44.	44,0	44.8		44
≥ 14000		32.9			42.9	43.8			44.8		44.8	44.8	44.8	44.8	44.0	44.
≥ 12000		35.4			43.2		44.8		45.2	1	45.2	45.2	45.2	45.2	45.2	45.
≥ 10000		37.0	40.9		45.9		47.8		48.1			48.1	40.1	48.1		48.
≥ 9600		37.7	41.9	44.7	48.2						50.5	50.5	50.5	50.5	50.5	50.
≥ 8000		37.9	42.2	45.7 46.1	49.4									51.9	51.9	٠1٠
≥ 7000		38.3	42.9		49.9 50.7						52.4	52.4		52.4	52,4	52.
≥ 6000		39.4	44.0	48.0	51.9		52.8					53.2	53.2			
≥ 5000		43.2	48.2					1					54.6			
≥ 4500		44.9	50.3	53.1	59.0	60.5		58.9	59.0		59.3					
≥ 4000		49.3	55.2		64.5		1		61.7		62.0		62.0	62 · C	62.0	
≥ ა\$60		53.8	50.3	66.7	71.3	72.8		74.C	74.1				67.5	67.5		<u> </u>
≥ 3000		58.9	66.1	73.2	78.3	79.8			81.2		74.3	74.3	74.3	74.3	74.3	74.
≥ 2560		03.3	70.9	78.8	85.0	86.7		88.2	88.3	88.4	88.5	88.5	81.4	31.4		<u> </u>
≥ 2000		65.8	73.6	82.0	88.5			92.1	92.2	92.4	92.5	92.5	88.5	88.5	88.5	ಕ8∙
≥ 1800 ≥ 1500		66.3	76,0	82.5	89.4	91.4		93.1	93.2		93.5	93.5	93.5	92.5	92.5	42.
		67.4	75.5	84.1	91.4		94.8	95.7	95.8		96.1	96.1	96.1	93.5 96.1	93,5 96.1	93. 96.
≥ 1700 ≥ 10.0		67.4	75.6	J4.4	91.9	94.2	95.6	96.6	96.7	97.C	97.2	97.2	97.2	97.2	97.2	97.
		67.4	75.6	84.4	92.4	94.8	90.1	\$7.2		97.8		98.0	98.0		98.0	
≥ 900 ≥ 800		67.4	75.7	84.7	92.5	94.9	96.3	97.4	97.6	98.1	98.2	98.2	98.2	98.2	98.2	98.
		67.4	75.7	84.8	92.7		90.7	97.8	98.1		98.6	98.6		98.6	98.6	
≥ 700 ≥ 600		67.4	75.7	84.9	92.8	95.6	97.0	98.5	98.8	99.2	99.3	99.3	99.3	99.3	99.3	99
		67.4	75.7	84,9	92.8	95.6	27.0	98.6	98.9		99.5	99.5	99.5	99.5	99.5	99.
≥ 500 ≥ 400		67.4	75.7	84.9	93.0	95.7	97.2	98.8	99.0	99.5	99.7	99.7	99.7	99.7	99.7	99.
≥ 300		67.4	75.7	84.9	93.0	95.7	97.2		99.0	99.7		99.8	99.8	94.8	99.8	99.
≥ 200	1	67.4	75.7	84.9	93.0	95.7			99.0	99.7	99.9	99.91	00.01	00.01	00.0	00.0
> 100		67.4	75.7	84.9	93.0	95.7		98.8			99.9	99.91	.00.01	.00 . oli	.00.01	00.0
≥ 100 ≥ 0	l	- 7 7			93.0	95.7			99.0		99.7	99.91	.00.01	00.01	.00.01	00.0
≥ 0		67.4	75.7		95.0	45.7							.00.01 .00.01	00.01	00.0	וני נוט

881

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY STA	ATUTE MILE	ES-						
*661	≥10	≥6	≥5	≥4	≥3	≥2'2	≥?	≥1';	≥1ધ	≥1	2.4	≥ (≥ 7	≥ 5 16	≥.	≥0
NO CEILING ≥ 20000		31.6 42.1	33.3	34.2 46.2	35.5 48.6	35.6	35.6 49.0	5.6 49.0	35.6 49.0	35.6 49.0		35.4	35.6 49.0	35.6 49.0		5.6 9.0
≥ 18000 ≥ 16000		42.6	44.9			49.5 49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5 49.5	•	49.5
≥ 14000 ≥ 12000		43.7	46.0	47.8	50.4 52.7	51.0 53.3	51.0 53.3	51.0 53.3	51.0 53.3	51.0 53.3	51.0 53.3	51.º	51.0 53.3		51.0 53.3	1.0 3.3ز
≥ 10000 ≥ 9000		48.2 50.2	50.7 52.7	52.5 54.9	55.8 58.3	56.4 59.0	55.4 59.0	56.4 59.0	56.5 59.1	56.5 59.1	56.5 59.1	56.5 59.1	56.5 59.1	56.5 59.1	50.5	56.5
≥ 8000 ≥ 7000		,n.4 21.2	53.0 53.8	55.2 56.1	58.7 59.6	59.4 60.3	59.4	59.4	59.5 60.4	59.5 60.4	59.5 60.4	59.5	59.5 60.4	59.5 60.4	59.5 60.4	59.5 50.4
≥ 6000 ≥ 50√)		54.0 57.1	56.9 60.3	59.2 62.3	62.9	63.6	63.6	63.6	43.8	63.8	63.8 68.0	63.8 68.0	63.8 68.0	63.9	53.3 68.0	58.8 58.0
≥ 4500 ≥ 4000		58.3 64.4	61.8	1	68.3 76.1	69.2 77.0	69.2 77.0	69.2 77.0	69.5 77.5	69.7 77.7	69.8 77.8	69.8 77.8	69.8 77.8	69.8 77.8	69.8 77.8	J9.8 77.8
≥ 3500 ≥ 3000	_	66.9 70.6	71.1 75.1	74.1 78.4	79.8	80.7 85.8	80.7 85.8	80.7 85.9	81.2 86.3	81.4 86.6	81.5	81.5	81.5 86.7	81.5 86.7	36.7	31.5 36.7
≥ 2500 ≥ 2000		72.6 74.4	77.4 79.6	81.3 83.8		89.4 \$2.8	69.7 93.1	89.9 93.3	92.8	90.7 94.1	90.8	90.8	90.8			90.8 94.3
≥ 1800 ≥ 1500		74.7 76.0				93.5	93.8	94.0 95.8	94.5	94.8	94.9	94.9 96.8	94.9		94.9	, ,
≥ 1200 ≥ 1000		76.2 76.2				95.9 96.6	96.2 96.9		97.0 97.9	97.4 98.3		97.6 98.6			•	
≥ 900 ≥ 800		76.2 76.2					97.1 97.4	97.7 98.0	98.5			98.9	98.9		98.9	98.9 99.2
ź 700 ≥ 600		76.2 76.2		• .		97.0 97.1	97.6		98.7 98.9		99.4 90.5	99.4	99.4	99.4 99.5		
≥ 500 ≥ 400		76.2 76.2			94.7		97.7	98.4 98.4	99.0	99.3 99.5	99.7 99.9	99.7 99.9	99.7 99.9	99.7 99.9	99.7 99.9	99.7
≥ 300 ≥ 200		76.2 76.2	82.0	86.5	94.7	97.1		98•4 98•4		99.7	00.0	100.1	100.0	100.0	100.0	100.0
≥ 100 ≥ 0		76.2 76.2				97.1 97.1			29.0 99.0							100.0 100.0

TOTAL NUMBER OF OBSERVATIONS

USAF ETAC JULGS 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FO

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1600-2000

CEILING							VIS	BILITY -STA	TUTE MILI	ES,						
(FEET)	≥10	≥6	≥5	≥4	≥3	≥21⁄2	≥2	212	≥1'4	≥1	≥ ,⁴	≥'.	≥ -	≥ 5 16	≥ .	≥0
NO CEILING ≥ 20000		33.2 39.7	35.6 42.5	38.1 45.8	39.8 48.5	39.8	43.1	49.5	40.3		1	40.7	40.3 49.5	40.3 49.5	40.3	.9.5
≥ 18000 ≥ 16000		39.3 39.8	42.7	46.1 46.1	43.7	49.2 49.2	49.5 49.5	49.8	49.8			49.3 49.8			49.8 49.8	49.5
≥ 14000 ≥ 12000		40.6 41.9	43.6	47.0	49.7 51.4	50.1 51.8	50.5 52.2	50.7 52.4	50.7 52.4			50.7 52.4	52.4		50.7 52.4	+
≥ 10000		43.9	47.2	51.2 51.7	54.7 55.7	55.2 56.1	55.5 56.5	55.9 56.9	56.0 56.9	56.9	56.9	56.0 56.9	56.9	56.9	56.0 56.9	26.9
≥ 8000 ≥ 7000		44.5	48.2 50.0	52.2 54.0	56.1 58.0	56.7 58.7	57.0 59.0	57.4 59.4	57.5 54.5	59,	59.5	57.5 59.5	59.5	57.5 59.5	57.5 59.5	59.5
≥ 6000 ≥ 5000		50.1 53.8	54.0 58.1	58.3 62.4	67.2	68.0	63.7 68.4	64.1	64.2	69.2	69.2	64.2 69.2	64.2	64.2 59.2	54.2 59.2	
≥ 4500 ≥ 4000		55.9 59.6	50.3 64.3	64.7 69.1	74.9	70.8 75.9	71.1 76.2	71.7 76.8	71.9 77.0	71.9	77.0	71.9	77.0	71.9	71.9 77.0	77.0
≥ 3500 ≥ 3000		53.5 66.9	68.5 72.6	73.2	79.6 84.9	80.6	81.3	82 • 1 87 • 5	82.3 88.0	88.1	<u>^8.1</u>	82.4 88.1	82.4 38.1	82.4	82,4 88.1	38.1
≥ 2500 ≥ 2000 ≥ 1800		68.7 70.0 70.4	74.6 75.9 76.3	30.6 82.3 83.7	88.5 90.9	89.6 92.3	90.6	91.6	91.9	92.0 94.7 95.7	94.7	92.0 94.7 95.7	92.0 94.7 95.7	92.0 94.7 95.7	92.0 94.7 95.7	94.7
≥ 1560		71.4	77.4	35.0 85.0	93.3	94.7	94.1 95.5 95.8	95.3 96.8 97.1	95.6 97.1	9 2	97.2	97.2	97.2	97.2 97.6	97.2	77.2
≥ 1000		71.4	77.5	85.1 85.1	94.1	95.7	96.8		98.6	98.7	98.7	98.7		98.7	98.7	98.7 98.7
≥ 900 ≥ 800 ≥ 700		71.4	77.5	85.2 85.2	94.2	96.0	96.8 97.1 97.1	98.6	99.0		99.1	99.1	99.1	99.1	99.1	99.1
≥ 600		71.4	77.5	85.2	94.2	96.0	97.1	99.7	99.1	99.2		99.2	99.2	99.2	99.2	99.2
≥ 500 ≥ 400 ≥ 300		71.4	77.5		94.3	96.2			99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 200		71.4	77.5	85.2	94.3	96.2	97.6	99.2	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	L	71.4	77.5	85.2		96.2			99.5			•				100.0

TOTAL NUMBER OF OBSERVATIONS__

USAF ETAC NEW 0-14-5 (OL A) PREVIOUS EDITIC 3 OF THIS FOR

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	IBILITY ·ST	ATUTE MIL	ES						
FEET	≥10	≥6	≥5	≥4	≥3	≥2'7	≥2	≥1'7	≥1'4	≥ı	≥ 34	≥'a	≥ -	≥5 6	≥ .	≥0
NO CEILING ≥ 20000		30.1 32.7	32.7 35.6	38.0 41.7		41.6	-7.		42.0 47.0		42.1 47.1	42.1 47.3	42.1	42.1 47.1	42.1 47.1	42.1 47.1
≥ 18000 ≥ 16000		32.9 32.9	35.8 35.8			46.8 46.8			47.2 47.2	47.3 47.3	47.3 47.3	47.3	47.3 47.3	47.3 47.3	47.3 47.3	47.3 47.3
≥ 14000 ≥ 12000	·	33.8 34.5	36.6	42.8 43.9	1	47.7	47.7	47.9 49.0	48.0 49.1	48.2 49.2	48.2 49.2	48.2	48.2 49.2	48.2	48.2	48.2
≥ 10000 ≥ 9000	·	36.7 37.6	39.7 40.5	47.4		51.6 52.4	51.8 52.7	52.2 53.0	52.3 53.2	52.4 53.3		52.4 53.2	52.4 53.3	52.4 53.3	52.4 53.3	52.4 53.3
≥ 8000 ≥ 7000	!	37.9 40.5	41.0	50.8	54.3	52.9 55.8	56.0	53.6 56.5	53.7 56.6	53.9 56.7	53.9 56.7	53.9 56.7	53.9 56.7	53.9 56.7	53.9 56.7	53.9 6.7د
≥ 6000 ≥ 5000	-	47.9	52.3	59.6	63.7	59.8 65.3	60.0 65.5	60.5 66.0	60.6	60.8	66.2	60.8 66.2	60.8	60.8 66.2	60.8 66.2	
≥ 4500 ≥ 4000		50.3 55.1	59.8	68.3	67.3 73.2	68.8 74.8	75.4	69.6 75.9	69.7 76.0	76.1	76.1	69.8 76.1	69.8 76.1	69.8 76.1	69,8 76.1	رى 76•1
≥ 3500 ≥ 3000		58.0 60.5	63.0			78.8 83.5	79.4 84.3	79.9 84.9	80.0 84.9	85.0	85.1	80.3 85.1	80.3 85.1	85.1	80.3	90.3 1.5ر
≥ 2500 ≥ 2000		65.3	71.1	81.8	89.1	88.2 90.8	91.7	89.5 92.2	29.7 92.3	89.8 92.4	92.5	89.9 92.5	89.5 92.6		89.9 92.0	
≥ 1800 ≥ 1500		66.5	72.4	84.8		92.7 94.4		94.1 95.7	94 • 2 95 • 8	94.3 96.0		94.4	94.5 96.2		94.5	95.2
≥ 1200 ≥ 1000		67.8	74.0 74.0	85.4		95.4 95.5	96.7 97.0		97•3 97•7	97.4 97.9		97.5 98.0	97.6 98.1	97.6 98.1	97,5 98.1	98.1
≥ 900 ≥ 800		67.9 67.9	74.1 74.1	85.6	93.9	95.8 90.1	97.5 97.7	98.3	98 • 2 98 • 5		98.5 98.7		98.6 98.9	98.9	98.9	98.9
≥ 700 ≥ 600		67.9 67.9	74.1	85.6 85.6	93.9	96.3 96.3	98.0		98.7 98.8		99.0				99.2	
≥ 500 ≥ 400	********	67.9	74.1	85.6		96.3 96.4		98.8 98.9	98.9 99.0	99.2	99.3	99.7		99.5	99.4 99.5	99.5
≥ 300 ≥ 200		67.9 67.9	74.1	85.6 85.6	93.9	96.4 96.4	98.3	99.0	99.3		99.8	79.A	100.0	100.0	100.0	100.0
≥ 100 ≥ 0		67.9 67.9		85.6 85.6		96.4 96.4			99.3					100.0 100.0	-	

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET.							VIS	IBILITY :ST.	ATUTE MIL	ES						
reen.	≥10	≥0	≥5	≥4	≥3	≥2'כ	≥2	≥1 ₂	≥1'ı	≥1	≥ '•	≥'₄	2 3	≥5 16	≥.	≥0
NO CEILING ≥ 20000		42.1 45.7	44.8	47.9 52.5							50.6 55.8					
≥ 19000 ≥ 18000		46.1	49.0	52.8	55.0	35.4	55.4	55.9	56.1	56.1		56.1	50.1	56.3	56.3	56.
≥ 14000 ≥ 12000		47.1		53.9 56.8	56.1		56.5	57.0	57.2	57.2 6^.2	57.2	57.2	57.2	57.4	57.4	57.
≥ 10000 ≥ 9000		52.5 53.4	56.0	60.2		63.1	53.1	63.6	63.9	63.9	63.9	63.0		54.0 65.2	64.1	,4
≥ 8000 ≥ 7000		54.9 58.6	1	63.1		66.5	66.5	67.0	67.2	67.2	67.2	67.2	67.2	67.3 71.4	67.4	07
≥ 6000 ≥ 5000		61.1		;		73.6	73.7	74.2 77.0	74.4	74.4	74.4	74.4	74.4	74.6	74.7	74
≥ 4500 ≥ 4000		65.7	71.1	76.4	79.5	80.1	80.2	80.7	81.0	81.0	31.0	81.0	81.0	81.1	81.2	51
≥ 3500 ≥ 3000		71.5	76.2 79.1	81.7 85.0	85.0 88.7	85.6	85.7	86.2	86.5	86.6	86.6	86.6 90.3	86.6	86.7	86.9	36
≥ 2500 ≥ 2000		74.7 76.8	80.1 82.3	86.2 88.9			91.0	91.5	91.8	91.9	91.9	91.9			92.1	92
≥ 1800 ≥ 1500		77.1	82.7 83.4	89.3 90.2		94.3 95.5		95.0	95.2	95.3	95.3	95.3	95.3	95.5	95.6	95
≥ 1200 ≥ 1000		78.1 78.3	83.7 83.8		95.1 95.3	95.7	95.8	96.4	96.7		96.9		96.9	97.1	97.2	
≥ 900 ≥ 800		78.3 78.3	83.9 84.0	90.7	95.6			96.9	97.2 97.8		97.4	97.4 98.2	97.4	97.5	97.7	97
≥ 700 ≥ 600		78.3 78.3	84.0	90.8	96.2 95.2	97.1	97.2	97.8		98.4		98.4	98.4	98.5 98.8	98.0	98
≥ 500 ≥ 400				90.8	96.4 96.4	97.4	97.5	98.3	98.6	99.0	99.0	99.0	99.0	99.1	99.3	99
≥ 300 ≥ 200			84.0	90.8	96.4 96.4	97.4	97.5	98.6	98.8	99.1	29.4	99.1 99.4	99.1	99.3	99.4	99 99
≥ 100 ≥ 0		78.3 78.3		90.8	96.4 96.4	97.4	97.5	98.6	99.0	99.4	99.4	99.4			99.6	49.

USAF ETAC JUL 64 0-14-5 (OL A) PREVIOUS ED TIONS O

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

<u>500ر – 200 د ٥</u>

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

VISIBILITY STATUTE MILES CEILING ≥5 16 ≥1. 43.0 47.7 45.3 NO CEILING 41.6 44.7 44.8 44.8 44.8 44.8 50.1 ≥ 20000 46.1 49.9 50.1 50.1 50.1 49.6 49.9 50.1 49.9 50.1 50.1 ≥ 18000 ≥ 16000 46.1 47.2 46.1 47.2 47.7 50.1 50.2 50.1 50.2 ≥ 14000 ≥ 12000 49.9 50.3 50.4 50.4 50.4 50.4 50.4 48.0 49.5 53.6 53.8 ≥ 10000 ≥ 9000 57.2 57.3 58.4 56.8 58.9 58.9 58.9 58.9 58.9 58.9 60.2 60.3 62.9 63.1 ≥ 8000 ≥ 7000 60.3 60.3 50.3 58.4 60.0 63.2 62.6 64.2 64.8 67.1 67.5 67.7 66.0 67.8 68.4 70.8 71.2 71.4 ≥ 6000 ≥ 5000 69.0 70.8 71.4 73.8 74.1 74.4 74.5 74.5 72.6 74.4 75.0 77.5 77.9 78.2 78.3 78.2 72.6 74.4 75.0 77.5 77.9 81.6 31.8 81.9 ≥ 450C ≥ 4000 78.3 78.3 76.4 78.1 80.7 ≥ 3500 ≥ 3000 3500 81.3 81.6 31.8 81.2 81.8 81.8 81.9 78.9 80.7 81.3 84.3 84.9 85.3 85.5 85.5 85.5 75.0 82.1 84.0 84.6 87.6 88.2 88.7 88.8 88.8 88.8 88.8 77.7 85.3 87.4 88.1 91.2 91.8 92.3 92.4 92.4 92.4 92.4 ≥ 2500 ≥ 2000 78.4 86.1 88.1 88.9 92.0 92.6 93.1 93.2 93.2 93.2 79.3 87.7 89.9 90.8 93.9 94.5 95.0 95.1 95.1 95.1 79.7 88.4 90.7 91.7 94.9 95.6 96.1 96.2 96.2 96.2 ≥ 1800 ≥ 1500 70.2 95.2 95.1 70.9 ≥ 1200 ≥ 1000 96.2 96.2 95.4 96.1 96.5 96.7 96.7 96.7 96.7 96.8 9 89.0 91.4 92.4 95.6 96.3 96.8 96.9 96.9 d 89.2 91.7 92.6 95.9 96.7 97.1 97.3 97.3 96.9 96.9 900 92.6 95.9 96.7 97.1 97.3 92.8 96.2 96.9 97.4 97.5 80.0 89.2 91.7 97.3 ≥ ≥ 600 37.5 97.4 97.6 97.6 97.7 80.1 89.5 92.1 93.2 96.7 89.6 92.1 93.2 96.8 97.4 97.9 98.0 98.1 98.1 97.5 98.1 98.2 98.3 98.3 500 400 98.C 98.1 98.1 98.1 98.3 89.6 92.1 93.3 97.0 89.6 92.1 93.3 97.0 97.9 98.5 98.6 98.7 98.7 97.9 98.5 98.6 98.7 98.7 98,8 98.7 300 58.9 98.8 98.0 98.6 99.7: 98.0 8.59 99.0 80.2 89.6 92.1 97.1 98.0 98.6 98.7 98.9

TOTAL NUMBER OF OBSERVATIONS.

USAF ETAC JUL 54 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLITE

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY ISTA	ATUTE MILE	FS:						
FEET	≥10	≥6	≥5	≥ 4	≥3	≥2'5	≥2	≥1 2	≥1,1	≥1	≥ '₄	≥,•	≥ ;	≥5 16	≥ .	≥0
NO CEILING ≥ 20000		22.7 29.0	24.7 31.5	30.8 37.8	37.1 45.3	38.7 47.1	39.9 40.3	41.4 50.6	41.7 51.3		52.1	42.5 52.1	42.7 52.2	42.7 52.2	42.7 52.2	42.7 52.7
≥ 18000 ≥ 16000		29.0 29.0	31.5	37.8 37.8		47.1 47.1	48.3 48.3	50.6 50.6	51.3 51.3	51.9	52.1 52.1	52.1 52.1	52.2 52.2	52.2 52.2	52.2 52.2	2.2ر
≥ 14000 ≥ 12000		29.4 31.1	33.8	40.6		47.9 57.2	49.1 51.5		52.1 54.8			52.9 55.6		53.0 55.7		
≥ 10000 ≥ 9000		33.7 35.2	38.2	43.8 45.7	52.1 54.0	54.1 56.1	55.6 57.6	58.0 60.0	58.9 60.8		51.8		59.9	59.9	59.9 61.9	9.9ر
≥ 80°°C ≥ 7000°		36.9 36.9	40.2	46.7 47.8	55.2 56.9	57.3 59.0	58.9 60.6		62.1	62.8	54.8	63.1	63.2	63.2	63.2	
≥ 6000 ≥ 5000		40.4	46.2	51.6 54.0		66.3	65.0	67.6 71.1	68.4		69.5 73.0	69.5 73.0	69.6 73.1	73.2	69.7 73.2	73.2
≥ 4500 ≥ 4000		43.9	51.0	55.5 59.1	55.3 59.0	67.8 71.7	69.7 73.5		73.4		74.5	74.5	74.6	79.3	74.7	74.7
≥ 3500 ≥ 3000		48.6 50.6	54.8		7 .2	77.4	75.6		80.0 83.7	84.7		81.1 85.1	81.2 55.2	81.4	81.4	
≥ 2500 ≥ 2000		53.0	59.9		80.7	80.5 83.9	82.5	85.9 89.7	86.8 90.7	87.9 91.8	92.2	92.2	88.3 92.3	88.5 92.4		12.4
≥ 1800 ≥ 1500		56.2 56.6	61.1	70.4		85.9	87.1 88.2		92.0	93.1		93.5	93.6	93.7 95.1	95.1	93.7 95.1
≥ 1200			61.3		83.0	86.7					96.4	95.9 96.4	96.5	96.6		96.6
≥ 900 ≥ 800		56.9	61.4	71.1	83.2	86.9	89.3	93.8		96.5	96.5 96.9		97.0	97.1	96.7 97.1	96.7 97.1
≥ 700 ≥ 600		56.9	61.4	71.1	83.4	87.3		94.6		97.6	97.3		98.0	98.1	98.1	98.1
≥ 500 ≥ 400		56.9 56.9	61.4	71.1	83.4	27.3		95.0	96.2	98.4	99.0	98.6	99.2	99.3	99.3	99.3
≥ 300 ≥ 200		56.9	61.4	71.1		87.3	89.9		96.3	98.8	99.4	99.5	99.7	99.9	99.9	99.9
≥ 100	! L	56.9		71.1 71.1	83.4			95.1 95.1	96•3 96•3		99.4 99.4	99.5 99.5		99.9	,	99.9 100.0

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY STA	ATUTE MILE	S]
(FEET)	≥10	≥6	≥5	≥ 4	≥3	≥2.7	≥2	د'ا≤	≥1.	≥1	≥ ,•	≥',	≥ ,	≥ 5 16	≥ .	≥0
NO CEILING ≥ 20000		34.1 40.3	36.7 43.5	40.4 48.1	51.7		43.0 52.6	43.8 53.1	43.9 53.2	43.9 52.2	43.9 53.2	43.° 53.2	9.و4 2.65	53.2	43.9 53.2	2•3ر
≥ 18000 ≥ 16000		40.4 40.4	43.7 43.7	48.2 48.2	51.8	52.0 52.0	52.7 52.7	53.2 53.2	53.3 53.3	53.3 53.3	53.3 53.3	53.7 53.7	53.3 53.3	53.3 53.3	53.3 53.3	23.3 23.5
≥ 14000 ≥ 12000		41.2	44.9	49.0 50.5	52.6 54.2	52.9 54.5	53.6 55.2	54.0 55.8	54.1 55.9	54.1 55.9		54.1 55.9	54.1 55.9	54.1 55.9	54.1 55.9	
≥ 10000 ≥ 9000		45.1 46.3	49.1 50.6		59.4	58.1 59.7	50.8 50.5	59.4 61.1	59.5 61.2	59.5 61.2		59.5	59.5 61.2	50.5 61.2	59.5 51.2	1.2
≥ 8000 ≥ 7000		46.6	51.3	56.2	60.4		61.4 51.8		62.5	62.0 62.5	62.5	62.5	62.0 62.5	62.0 62.5	52.0 52.5	52.5
≥ 6000 ≥ 5000		48.3 51.0	52.9 55.6	<u>ύ1.2</u>	62.2 65.9	62.6	67.6	64.1 68.2	68.3	68.3	54.3 68.3	68.3	64.3 63.3	64.3 68.3	68.3	
≥ 4500 ≥ 4000		52.0 55.1	56.7 59.8		70.5	67.4 71.0	72.4		69.4 73.1	69.4 73.1	59.4 73.1	59.4 73.1	69.4 73.1	69.4 73.1	69.4 73.1	73.1
≥ 3500 ≥ 3000		57.7 61.9	62.5	73.5		74.6		76.6 81.3	76.7 81.4	76.7 81.4	76.7 31.4	75.7 21.4	70.7	76.7 81.4	81.4	76.7
≥ 2500 ≥ 2000		67.3 71.0	72.3	83.5			ار . 7 91 - 2	87.3 91.7	87.4 92.0	87.4 92.0	92.0		87.4 92.0		92.6	
≥ 1800 ≥ 1500		71.4	78.6		92.2				92.7	92.7 95.5	95.5	95.5			92.7	
≥ 1200		73.3	79.2	87.2	93.4	94.8	96.5	96.4	96.6		97.4	97.4	97.4	97.4	97.4	97.4
≥ 900 ≥ 800		73.5	79.3	87.3	94.5	95.3	97.3	97.6 98.1	98.4	97.8 98.4	98.4	98.4	97.8	98.4	98.4	98.4
≥ 700 ≥ 600		73.5	79.3	87.4	95.0	95.2		99.3	98.8 99.5	98.8	99.7	98.8	98.8	99.7	99.7	39.7
≥ 500 ≥ 400		73.5 73.5	79.3	87.4	95.0	96.2 96.2	98.5	99.4	99.7 99.7		100.0			100.0	100.3	0.0 ا
≥ 300 ≥ 200		73.5		87.4 87.4	95.0				99.7	99.9	100.0	100.7	100.0	100.0	100.0	100.0
≥ 100 ≥ 0		73.5	79.3	87.4 87.4	95.0 95.0				99.7 99.7							100.0

CEILING VERSUS VISIBILITY

35032

RHEIN-MAIN APT GERMANY/FRANKFURT

07-70

AP,

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1200- 400

CEILING FEET		· · · · · · · · · · · · · · · · · · ·					VIS	BILITY ST	ATUTE MIL	£5						
	≥10	≥6	≥5	≥4	≥3	≥2 ;	≥2	≥1';	≥1'.	≥.	≥ '4	≥ .	≥ ;	≥ 5 16	≥.	≥0
NO CEILING ≥ 20000		41.3 50.1		43.3 53.6			45.3								, -	
≥ 18000 ≥ 16000	·····	50.1 50.1	51.9		54.1	54.1	54.1	54.2	54.2		54.2	54.2	54.2	54.2	54.2	
≥ 14000 ≥ 12000		51.0 52.4	52.7	54.4	54.9	54.9	54.1 54.9				55.0	55.0				
≥ 1000u ≥ 9000		54.5	56.3	58.1	58.7	58.7	50.4 56.7	56.7 58.9			56.7	56.7	56.7			
≥ 8000		56.0 56.8			60.7		50.7 51.7		61.0	61.9	61.0	61.0	61.0		61.0	
≥ 7000 ≥ 6000		57.9 59.5	60.1				53.1 64.8	03.4	63.4	63.4	63.4		63.4	63.4	63.4	_3.4
≥ 3000 ≥ 4500		62.2	67.7		67.7 70.8	07.8	67.8	58.7 71.1	68.0	68.0	58.0	68.7	68.0	68.0	68.0	58.0
≥ 4000		69.8	72.2	74.3	75.3	75.4	75.4	75.7	75.7	75.7	75.7		75.7	71.1 75.7		
≥ 3000 ≥ 2500		79.7	82.5	85.1	86.2	78.9 86.3	36.3	79.1 86.8	85.8	86.8	86.8		79.1 80.8			
≥ 2000		84.1	90.6	93.9	95.2	91.4 95.3	95.5		92.0 96.1		92.0	92.1		92.0 96.1		92.0 46.1
≥ 1800 ≥ 1500		88.9	91.3 92.5	95.8	97.3	96.1 97.5				96.8 98.3	96.8	96.P	96.8	96.8	96.8	96.3
≥ 1200 ≥ 1000		89.1 89.1	4:.7	96.2	97.6	97.9	98.0	98.6	98.7	98.7 98.8	98.7	98.7	98.7	98.7	98.7 98.8	98.7
≥ 900 ≥ 800		89.1 89.1		96.3	97.9	98.2	96.3	98.9	99. O	99.0 99.2	99.0	99.0	99.0	99.0	99.0	99.0
≥ /uu ≥ 6(.		89.1		70.4	98.2	98.6	96.7	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	39.4
≥ 500 ≥ 400		85.3	92.8	96.5	96.2	30 · //	79.U	99.80	1 O O • Oi	99.8 00.0	100-01	00.01	100.0	00.0	00.0	70.0
≥ 300 ≥ 200		39.3	7604	70.2	7003	70.1	77.OI	99 • 80	LÖG - CH	00.0	เดด 🗝 ดเม	00.00	ເດດຸດກ	00.00	00.0	00.0
≥ 100		0765	76.9	70.7	70.3	98.7	99.0	99.3	00.0	00.01	00.01	00.0	00.0	00.00	00.0	20.0
≥ 0		89.3	92.8	96.5	78.3	98.7	99.0	39.3	00.01	02.01	00.01	00.0	00.0	07.01	20.0	0

TOTAL NUMBER OF OBSERVATIONS.

83

USAF ETAC AUT OF 14-5 (OL A) MEVIOUS EDITIONS OF THIS FORM ARE OBSOL

AIR HEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

1500-,700

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY STA	NW STUTE	ES						;
(FEET)	≥10	≥6	≥5	≥ 4	≥3	≥2 ?	≥ 2	≥1 2	≥; .	≥1	≥ ••	≥',	≥ :	≥5 16	≥.	≥0
NO CEILING ≥ 20000		42.0 54.7		42.9 56.3	43.1	43.1 56.6	43.1 56.6	43.1	43.1 56.6	43.1 56.6	43.1	43 + 1 56 - 5	43.1 56.6		43.1 50.6	,
≥ 18000 ≥ 16000		55.6 55.6	56.4	57.1 57.1	57.5 57.5	57.5	57.5 57.5	57.	57.5		57.5	57.5	57.5 57.5	57.5	57,5	27.5
≥ 14000 ≥ 12000		56.8	57.7	58.6	59.1	59.1 61.1	59.1 61.1	59.1	59.1 61.1	50.1	59.1 61.1	59.1	59.1 61.1	59.1 61.1	59.1 61.1	39.1
≥ 17000 ≥ 9000		61.8 64.3	62.8	63.6 66.1	64.5	64.5	64.5	64.5	64.5		64.5	64.5	64.5	64.5	64.5	04.5
≥ 8000 ≥ 7000		65.0	66.1	66.9	67.9	67.9	67.9	67.5	67.9	67.9	67.9	67.9	67.9	67.9	57.9	ر 37.9
≥ 600° ≥ 5000		69.3	70.5	71.6	72.6	72.6	72.6		72.8	72.8	72.8	72.0	72,8	72.8	72.8	72.3
≥ 4500 ≥ 4000		72.7 75.6 79.8	76.9	78.6 83.1	79.6	79.6	76.3 79.6 34.3	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
≥ 3500 ≥ 3000		82.1	83.8	85.7 85.1	87.1	87.1	87.1	87.3 90.8	87.3	87.3	87.3		37.3	87.3	87.3	87.3
≥ 2500 ≥ 2000		87.9 89.0	90.2	92.5	94.0	94.1	94.1	94.3	94.3	94.3	94.3	94.2	94.3	94.3	96.3	94.3
≥ 1800 ≥ 1500		89.6 90.1	92.0	94.7	96.3	96.6	96.6		96.1		97.1	96.3 97.1 98.2	07.1	97.1	97.1 98.2	96.3 97.1 98.2
≥ 1200 ≥ 1000		90.5	93.0	95.8	97.9		96.3	98.7	98.9 98.9	99.C	99.0	99.0	99.0		99.0	
≥ 900 ≥ 800		90.6	93.1	95.9 95.9	95.1	98.7	98.8		99.4	99.5	99.5		99.6	99.6	99.6	
≥ 700 ≥ 600	 	90.6	93.1	95.9	98.1	93.7	98.6	99.2	99.4	99.5	99.5	99.6 99.8	99.6	99.6	79.6	
≥ 500 ≥ 400		90.6	93.1	95.9	98.1		98.8	99.4	99.6	99.8	99.8	97.9	99.9	99.9	99,9	99.9
≥ 300 ≥ 200		90.6	93.	95.9	98.1	98.7	98.8	99.4	99.6	99.8	99.8	100.0	100.0	100.0	100.0	100.0
≥ 100 ≥ 0		90.6		95.9	98.1	98.7	98.8	39.4	99.6	99.8	97.8	100.0	100.0	100.0	100.0	100.0 100.0 100.0
L	L	70.0	7304	7207	79 0 1	7091	78.0	7764	77,0	77.0	77.0	T00.0	100.0	100.0	100.0	1.00.0

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1800-2000

CEILING						·	VISI	BILITY (STA	ITUTE MILE	(S)						
FEET	≥10	≥6	≥5	≥ 4	≥3	≥2'2	≥2	≥11%	₄نا≤	≥1	≥ 1,4	≥,•	≥ '7	≥5 16	≥ ′•	≥0
NO CE'LING ≥ 20000		42.5	43.2	44.2	44.4 56.9	44.4 56.9	44.4	44.4 56.7	44.4	44.4 54.9	44.4 56.9	44.4 56.0	_ `	44.4 56.9	44.4	44.4
≥ 18000 ≥ 16000		54.0 54.0	55.2	56.7	57.1 57.1	57.1 57.1	57.1 57.1	57.1 57.1	57.1 57.1	57.1 57.1	57.1 57.1	57.1 57.1	57.1 57.1	57.1 57.1	57.1 57.1	57.1 7.1
≥ 14000 ≥ 12000		55.1 57.8	56.3 59.0	57.8 00.4	58.4 61.1	58.4 61.1	58.4 61.1	58.4 61.2	58.4 61.2	58.4 61.2	58.4 61.2	58.4 61.2	58.4 61.2	58.4 61.2	58.4 61.2	58.4 51.2
≥ 10000 ≥ 9000		60.8	62.1	63.9 65.1	64.8 66.1	64.8 65.1	64.8 66.1	65.0 66.2	65.0 66.2	65.0 66.2	65.0 36.2	65.0 66.2	65.0 66.2	65.0	65.0 66.2	55.0 06.2
≥ 8000 ≥ 7000		63.0 65.1	64.3	66.2 68.5	67.2	67.2 69.5	67.2 69.5	67.3 69.6	67.4	67.4 69.7	67.4 69.7	67.4	67.4 69.7	67.4	67.4 69.7	39.7
≥ 6000 ≥ 5000		67.6 70.9	69.2 72.5	71.4 74.7	72.4 76.1	72.4 75.1	72.4 76.1	72•5 76•2	72.6 76.3	72.6 76.3	72.6 76.3	72.6	72.6 76.3	72.6 76.3	72.0 76.3	72.6 76.3
≥ 4500 ≥ 4000		74.1 79.2	75.8 81.2		79.5 85.3	79.5 85.5	79.5 95.6	75.6 86.0	79.7 86.1	79.7 86.1	79.7 36.1	79.7 86.1	79.7 86.1	79.7 86.1	79.7 86.1	79.7 56.1
≥ 3500 ≥ 3000		81.6 83.6	86.0	1	88.5 91.2	88.6 91.3			89.3 91.9	89.3 91.9	89.3 91.9	91.9	89.3 91.9	89.3 91.9	39.3 91.9	
≥ 2500 ≥ 2000		85.6 86.8		1	93.5 95.4	93.7 95.8		94 • 1 96 • 5	94.3 96.6		94.3 96.6	94.3 96.4	94.3 96.6		94.3 96.6	96.6
≥ 1800 ≥ 1500		86.9 87.8	90.6		95.8 97.3	97.9	98.3	97•1 98•7	97•2 98•9	97.2 98.9		97.2	97.2 98.9		97.2 98.9	98.9
≥ 1200 ≥ 1000		87.8 87.9	90.7	94.3 94.4	97.3 97.6	98.3	98.7	98.7 99.1	98.9 99.4	98.9 99.4	99.4	98.9 99.4	98.9 99.4	98.9 99.4	98.9 99.4	99.4
≥ 900 ≥ 800		87.9 87.9	90.7	94.4 94.4	97.6 97.7	98.3 98.4	98.7 98.8	99•1 99•3	99.4	99.4	99.4 99.5	99.4	99.4 99.5	99.4	99.4 99.5	99.5
≥ 700 ≥ 600		87.9 87.9	90.7	94.4	97.7 97.7	98.4 98.4	98.8	99.3	99.5	99.5		99.5	99.5	99.5 99.5	99.5	99.5
≥ 500 ≥ 400		87.9 87.9	90.7	94.4	97.7 97.7	98.4 98.4			99.5	99.5	99.5 99.5		99.5 99.5	99.5 99.5	99.5	99.5
≥ 300 ≥ 200		87.9 87.9	90.7	94.4	97.7 97.7	98.4 98.4	98.8 98.8	99.4		99.8		99.9	99.9	99.9	99.8 99.9	99.9
≥ 100 ≥ 0		87.9 87.9	90.7 90.7	94.4 94.4	97.7 97.7	98.4 98.4		99.4				-	99.9 100.0			99.9

TOTAL NUMBER OF OBSERVATIONS.

USAF ETAC FORM 0-14-5 (OL Á) PREVIOUS EXITIONS OF THIS FORM ARE OBSOLETE

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY ST	ATUTE MIL	ES.						
(FEET)	≥10	≥6	≥5	≥4	≥3	≥2'⁄2	≥ 2	21%	≥1′.	≥1	≥ کړ	≥,,	≥ >	≥5 16	≥ .	≥0
NO CEILING ≥ 20000		48.4 56.1		49.9 58.1	50.4 58.7	50.5 58.9	50.6 59.2		50.7 59.3				50.9 59.4		59.4	59.5
≥ 18000 ≥ 16000		56.1 56.1		58.1 58.1	58.7 58.7	58.9 58.9	59.2 59.2	59.3 59.3	59.3 59.3	1		59.4 59.4	59.4 59.4		59.4 59.4	59.5 29.5
≥ 14000 ≥ 12000		57.0 59.2	57.7 60.0	59.0 61.6	59.7 62.2	59.9 62.5	60.1	60.3 62.8			60.4		60.4			00.5 3.1
≥ 10000 ≥ 9000		62,0 63,3	63.6	65.3	66.0	66.3	66.5	66.6	66.6	66.7 68.2	66.7	66.7	66.7 68.2	66.7 68.2	66.7 68.2	66.9 £8.3
≥ 8000 ≥ 7000		66.9	66.4	68.2	68.9 71.5	69.2 71.8	69.4 72.0	69.6 72.1	69.6 72.1	69.7 72.2	69.7 72.2	69.7	69.7 72.2	69.7 72.2	69.7 72.2	09.8 72.4
≥ 6000 ≥ 5000		71.4		75.4 78.9	76.3 80.1	76.5	76.8	76.9 80.7	76.9 80.7	77.0 80.8	77.0	77.0 80.8	77.0 80.8	77.0 80.8	77.0 80.8	77.1 30.9
≥ 4500 ≥ 4000		76.8 80.4		81.4 85.2	82.8 86.8		87.4	83.4 87.5	83.4	83.5 87.7	83.5	83.5		83.5 87.7	83.5 87.7	37.8
≥ 3500 ≥ 3000		82.2 84.6		87.0	68.9 91.4		92.2	39.6 92.3	89.6	89.7	89.7 92.4	89.7 92.4	89.7 92.4	89.7 92.4	39.7 92.4	39.9 32.5
≥ 2500 ≥ 2000		85.8 87.0		91.2 93.4	93.0 95.5	93.5 96.1	93.8	93.9	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.1 96.7
≥ 1800 ≥ 1500		87.4 87.9	90.2 90.7	93.9 94.4	96.1	96.7	96.9	97.1 97.6	97.1 97.6	97.2 97.7	97.2	97.7	97.2 97.7	97.2	97.2 97.7	97.3 97.8
≥ 1200 ≥ 1000		87.9 87.9	90.8 90.8	94.6	96.9	97.8 98.3	98.5	98.2 98.8	98.2 98.8	98.9	98.3	98.3	98.9	98.3	98.3 98.9	98.4
≥ 900 ≥ 800		87.9 87.9	90.8 90.8	94.6	97.3 97.4	98.3 98.4	98.5	98.8 98.9	98.8	98.9	98.9	98.9	98.9	98.9 99.0	98.9	99.0 99.1
≥ 700 ≥ 600		87.9 87.9	90.8	94.6	97.4	98.4 98.4	98.7 98.7	99.0 99.0	99.0	99.1 99.1	99.1	99.1 99.1	99.1 99.1	99.1 99.1	99.1	99.3
≥ 500 ≥ 400		87.9 87.9	90.8	94.6	97.4 97.4		98.7 98.7	99.0 99.1	99.0 99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.3
≥ 300 ≥ 200		87.9 87.9	90.8	94.6	97.4	98.4	98.7 98.7	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.9	99.8 100.0
≥ 100 ≥ 0		87.9 87.9		94.6	97.4 97.4	98.4 98.4	98.7 98.7	99.6		99.8 99.8			- • .		99.9	100.0 100.0

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	IBILITY ISTA	TUTE MILE	ES,						
(FEET)	≥10	≥6	≥5	≥ 4	≥3	≥2⅓	≥2	≥1½	₄′ا≲	≥1	≥ 14	≥ %	≥%	≥5 16	≥'4	≥0
NO CEILING ≥ 20000		40.7	42.7	45.8 49.1	47.9 52.0	48.2 52.2	48.5	48.9 53.0	49.0 53.2	49.0 53.2	49.0 53.2	49.0 53.2	49.0 53.2	49.0	49.0 53.2	49.1
≥ 18000 ≥ 16000		43.8	45.9	49.1 49.1	52.0 52.0	52.2 52.2	52.7 52.7	53.0 53.0	53.2 53.2		53.2 53.2	53.2 53.2	53.2 53.2	53.2 53.2	53.2 53.2	53.3 33.3
≥ 14000 ≥ 12000		44.6	46.7	49.9 53.5	52.8 56.5	53.0 56.7	53.5 57.2	53.9 57.6	54.0 57.7	54.0 57.7	54.0 57.7	54.0 57.7	54.0 57.7	54.0 57.7	54.0 57.7	54.1 7.8
≥ 10000 ≥ 9000		51.1 54.7	54.2 58.7	58.0 62.5	61.2 65.8	61.5	62.0 66.5	62.3 66.8	62.4		62.4	62.4	62.4	62.4	62.4	ر2.5 7.1
≥ 8000 ≥ 7000		55.8 58.9	60.0	63.9 68.3	67.3 71.9	67.5 72.4	68.0	68.4 73.2	68.6 73.5	68.6 73.5	68.6 73.5	68.7 73.4	68.7 73.6	08.7 73.6	68.7 73.6	68.8 73.7
≥ 6000 ≥ 5000		61.2	66.3	70.9 74.1	74.8 78.0	75.4 78.6	75.9 79.1	76 • 2 79 • 5	76.5 79.8	76.5 79.8	1	76.4 79.9	76.6 79.9	76.6 79.9	76.6	76.7 60.0
≥ 4500 ≥ 4000		65.5 66.8	71.2	76.3 78.2	80.3 82.5	80.9 83.1	81.3	81.8 84.2	82.0 84.4	82.0 84.4	82.0 84.4	82 • 2 84 • 5	82.2 84.5	82.2 84.5	82.2 84.5	52.3 34.7
≥ 3500 ≥ 3000		68.1 69.8	74.0 75.7	79.5 81.7	84.3 86.6	84.9 87.3	85.4 87.8	86 • C 88 • 3	86.2 88.6	86.2 88.6	86.2 88.6	86.3 88.7	86.3 88.7	86.3 88.7	86.3 88.7	86.4 88.8
≥ 2500 ≥ 2000		71.2	77.3 78.7	83.5 85.0	88.3 90.0	89.1 90.7		90 • 1 91 • 8	90.4		90.4 92.0	90.5 92.2	90.5	90.5 92.2	92.2	90.6 92.3
≥ 1800 ≥ 1500		73.4	79.5 80.1	86.1 87.0	91.3 92.4	92.2	93.8	93.2 94.4	93.5 94.6		93.5 94.6	93.6 94.8	93.6 94.8		95.6 94.8	-
≥ 1200 ≥ 1000		74.2		87.4 87.5		93.7 93.9		94.8 95.0	95.0 95.2	95.0 95.2	95.0 95.2	95•1 95•4	95.1 95.4	95.1 95.4	95.1 95.4	
≥ 900 ≥ 800		74.2	80.4	87.5 87.6		94.1 94.3	94.5	95•1 95•5	95.4 95.7	95.4 95.7	95.4 95.7	95.5 95.8	95.5 95.8	95.5	95.8	
≥ 700 ≥ 600		74.2		87.6 87.6		94.5 94.8	95.0 95.2	95.7 96.1	96.0 96.3	96.0 96.3	96.0 96.3	96 • 1 96 • 4	96.1 96.4	96.1 96.4		
≥ 500 ≥ 400		74.2	80.5		94.1	95.2 95.4		96.9 97.5	97.9 97.9	97.9		98.0		97.4	98.0	98.1
≥ 300 ≥ 200		74.2	80.6	87.9	94.5	95.7 96.1	96.4	98.6	98.5 99.0	99.2	99.2	98.6	99.3	99.5	99.5	99.6
≥ 100 ≥ 0		74.2		87.9		96.1 96.1	96.8		99.0 99.0			99.3		99.5 99.6		99.6 100.0

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFUOT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING	_						VIS	BILITY (ST.	ATUTE MILI	ES)						
iFEETi	≥10	≥6	≥5	≥4	≥3	≥21⁄2	≥2	≥1%	≥1¼	≥1	≥ ¼	≥3.	≥ %	≥5 16	≥ .	≥0
NO CEILING ≥ 20000		26.7 30.4		32.9 35.1	37.0 43.3	39.0 45.5	40.3 46.8		42.0 48.5	49.0		42.6 49.1	42.6 49.1	49.2	42.7 49.2	42.8 49.4
≤ 18000 ≥ 16000		30.4 30.4		38.1 38.1	43.3 43.3		46.8 46.8	48.2 48.2	48.5 48.5		49.1		49.1 49.1	49.2 49.2	49.2	49.4
≥ 14000 ≥ 12000		30.7 33.2	37.0	41.2	47.1	49.4	47.1 50.6	48.7 52.2	49.0 52.5	53.0	53.2	53.2	49.7 53.2		53.3	
≥ 10000 ≥ 9000		36.7 28.4	43.4	46.2 48.8	53.2 56.0	58.7	57.2 60.0	58.8 61.7	59.1 62.0			62.7	59.8 62.7	62.9	62.9	60.1 53.0
≥ 8000 ≥ 7000		39.9 42.4	48.0	50.6 54.2	58.2 62.3	65.1	62.3	64.0 68.5	64.5 68.9	~	65.2				49.7	65. 69.8
≥ 6000 ≥ 5000		44.7	52.5	59.7		72.3	71.0 74.0	72.9 76.1	73.3 76.6		74.0	77.2	74.0	74.2 77.4		
≥ 4500 ≥ 4000		47.4	56.7	62.0 64.4	71.2 73.9	77.6	76.5 79.7	78.7 82.0	79.2 82.4	79.6 82.9	79.9 83.1	79.9 83.1	79.9 83.1	80.0 83.2	P3.2	50.1 53.4
≥ 3500 ≥ 3000		49.7 51.7	59.7		74.9 77.8		80.7 83.9	83.0 86.4	83.5 86.8			87.7	84.3	87.8	87.8	
≥ 2500 ≥ 2000		53.0 53.8	61.9	,	80.4					91.3		91.4		91.7	91.	91.9
≥ 1800 ≥ 1500		54.0 54.5					88.5			93.5	93.7			93.9	93.9	94.1
≥ 1200 ≥ 1000		54.7 54.7	63.1 63.1	72.4 72.4	83.6	87.7	90.3		93.6		94.3	94.4	94.4	94.5	94.5	94.6
≥ 900 ≥ 800		54.7 54.7	63.1 63.1	72.4 72.4	83.6	87.9			93.7 93.8	94.3	94.5	94.6	94.6	94.8	94.8	94.9
≥ 700 ≥ 600		54.7 54.7	63.1 63.1		83.8	88.4		94.2			95.6	95.7			95.8	95.9
≥ 500 ≥ 400		54.7 54.7	63.1 63.1	72.5 72.5	83.8	88.5	91.7	94.8			96.4	96.5	96.5		96.6	96.9
≥ 300 ≥ 200		54.7 54.7			83.8	88.5	91.7				97.4	97.6	97.8	98.0	98.0	98.4
≥ 100 ≥ 0		54.7 54.7	63.1 63.1	1 - 0		88.5 88.5			95.9 95.4	96.6 96.6					, , , -	99.4 100.0

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)							VIS	BILITY IST.	ATUTE MIL	ES:						
(FEE1)	≥10	≥6	≥5	≥4	≥3	≥2%	≥2	د≀ا≲	≥1'₄	≥!	≥ 1,	≥ ''	≥ 7	≥ 5 16	≥ .	≥0
NO CEIUNG ≥ 20000		22.5 28,3	26.0 32.9		35.0 45.4	36.6 45.0		37.6 47.1	37.7 47.2	37.7 47.2	37.7	37.7	37.7 47.2	37.7 47.2	37.7 47.2	27.8 47.4
≥ 18000 ≥ 16000		28.3 28.3	32.9 32.9	40.1 40.1	45.4 45.4	46.0	46.3	47.1 47.1	47.2 47.2	47.2	47.2	47.2	47.2	47.2	47.2	7.4 7.4
≥ 14000 ≥ 12000		28.9 31.8	33.5 37.0	45.C	46.4 51.0	47.1 51.7	47.5 52.1	48.4 53.0	48.5 53.1	48.5 53.1	48.5 53.1	48.5 53.1	46.5 53.1	48.5 53.1	48.5 53.1	48.6
≥ 10000 ≥ 7000		34.7 35.7	40.5	1 1 1	57.3 58.8	58.3 59.7	58.8 60.3	60.1	60.2 61.8	60.2 61.8	60.2	60.2 61.8	60.2	61.8	60.2 61.8	00.3
≥ 8000 ≥ 7000		36.1 37.6	42.2 43.7	52.1 53.8	59.6 61.5	60.6 62.4	61.2 63.2	62.5	62.7 64.7	62.7	52.7	62.7	62.7	62.7	62.7 64.7	52.8
≥ 6000 ≥ 5000		40.6 42.7	46.8	57.7 60.8	66.2 70.0	67.2 71.2	68.0 72.2	69.4 73.9	69.5	69.5 74.1	69.5	69.5 74.1	69.5 74.1	69.5	69.5 74.1	69.6
≥ 4500 ≥ 4000		44.0 45.9	50.9 52.9	62.6	71.8 74.9	73.1 76.1	74.3 77.4	75.9 79.1	76.0 79.2	76.1 79.5	76.1 79.5	76.1 79.5	76.1 79.5	76.1 79.5	76.1 79.5	76.3
≥ 3500 ≥ 3000		47.4 50.2	54.4 57.7	66.6 70.2	76.8 81.0	78.2 82.5	79.6 84.4	81.3 86.4	81.4 86.5	81.7 86.7	86.8	81.8 86.9	81.8	81.8	81.8	81.9
≥ 2500 ≥ 2000		51.7 52.8	59.2 60.2	71.7 72.8	82.6 83.8	84.2 85.6	86.2 87.7	88 • 4 90 • 0	88.6	88.9 90.5	89.0	89.0 90.6	89.0 90.6	89.0	89.0 90.6	69.1 90.7
≥ 1800 ≥ 1500		53.3 54.5	60.8	73.6 75.1	84.6	86.4 88.3	88.5 90.5	90.8 92.8	91.1 93.0	91.3 93.2	91.4 93.3	91.4 93.3	91.4	91.4		91.5
≥ 1200 ≥ 1000		54.8 54.8	62.6	75.8 75.8	87.4 87.6	89.7 90.3	91.9	94.4	94.6	94.8 95.8	95.0 95.9	95.0 95.9	95.0 95.9	95.0	95.0	95.1
≥ 900 ≥ 800		54.9	62.7	75.8 75.9	87.7 87.8	90.5	92.7 92.9	95.5 96.0	95.8	96.0 96.6	96.1 96.7	96.1	96.1 96.7	96.1	96.1 96.7	96.2 96.8
≥ 700 ≥ 600		54.9 54.9	62.7	75.9 75.9	87.8 88.1	90.7	92.9 93.2	96.C	96.3	96.6	96.7	96.7	96.7	96.7	96.7	96.8
≥ 500 ≥ 400		54.9 54.9	62.7	75.9 75.9	88.2 88.3	91.1 91.2	93.5 93.6	97.0 97.5	97.4 97.8	97.9 98.5	98.1 98.7	98.9	98.1	98.9		98.2
≥ 300 ≥ 200		54.9 54.9	62.7	75.9 75.9	88.3	91.2 91.2	93.7 93.7	97.6 97.5	97.9 97.9	98.7 98.7	99.1 99.1	99.3	99.5	99.5	99.5	99.7
≥ 100 ≥ 0		54.9 54.9	62.7	75.9 75.9	88.3 E.88	91.2 91.2	93.7	97.6	97.9 97.9	98.7 98.7	99.1	99.4	99.7	99.7	99.9	99.8

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

76____

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0900-1100

CEILING FEET							VIS	BILITY (ST	ATUTE MIL	ESı						
	≥10	≥6	≥5	≥4	23	≥2'7	≥ 2	≥11/2	≥14	≥1	≥ 14	≥,*	≥ 2	≥5 16	≥ .	≥0
NO CEILING ≥ 20000		34.4 45.0	35.9 47.1				38.9 50.9	39.2 51.3	39.2 51.3			39.2 51.3	39.2 51.3		39.2 51.3	
≥ 18000 ≥ 16000		45.1 45.1	47.2 47.2						51.5 51.5	51.5 51.5	51.5		51.5	51.5	51.5	51.5
≥ 14000 ≥ 12000		47.0 50.6			53.0 56.9		53.4	53.7	53.7		53.7	53.7	53.7	53.7 57.6	53.7 57.6	53.7 53.6
≥ 10000 ≥ 9000		53.4 53.9			60.8	61.2		61.7	61.7		61.7	61.7	51.7	61.7	61.7	51.7
≥ 8000 ≥ 7000		54.2 55.4	57.1	60.8	62.4		63.0		63.4	_	63.4	63.4	63.4 65.0	63.4	63.4	33.4
≥ 6000 ≥ 5000		56.6 59.8	60.1	64.1	65.9	66.3	66.4	66.9	66.9	66.9		66.9	66.9	66.9	66.9	66.9 70.7
> 4500 2 4000		62.0	65.9	70.5	72.3	72.8	72.9	73.4				73.4	73.4 77.2	73.4 77.2	73.4	73.4
≥ 350¢ ≥ 3000		69.3	73.5		80.7	81.1		81.8 87.5		81.8	81.8	81.8 87.5	81.8 87.5	81.8	91.8	81.8
≥ 2500 ≥ 2000		76.9 78.6	81.7	87.0	90.0	90.9	91.2	91.7	91.7	91.07	94.0	91.7	91.7	91.7	91.7	91.7
≥ 1800 ≥ 1500		79.4 80.4	84.7	90.3	93.6		94.9	95.4	95.4	95.4	95.4	95.4 96.8	95.4	95.4	95.4 96.3	95.4
≥ 1200 ≥ 1000		80.4 80.5	85.9	92.0	95.7	96.6	97.0	97.5	97.5	97.5	97.5	97.5 98.0	97.5	97.5	97.5	97.5
≥ 900 ≥ 900		80.6 80.6	86.2		96.2	97.2	97.6	98.1	98.1	98.1	98.1	98.1	98.1	98.1 98.8	98.1 98.8	98.1
≥ 700 ≥ 600		80.9	86.6	92.8	96.9	98.0		99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 500 ≥ 400		80.3	55.6 86.5	92.8	96.9	98.0	98,5	99.4	99.4		99.5	99.5	99.5	99.5	99.5	99.5
≥ 300 ≥ 200			86.6	92.8	26.9	98.0	98.6	99.7	99.8	100.0	100.0	00.0	00.0	00.0	00.0	00.0
≥ 100 ≥ 0		80.9	86.6			98.0		99.7	99.8	100.C	100.0	00.0	00.0	00.0	00.0	00.0
<u> </u>		2000	2000		7017		<u> </u>	776/	7760	10000	r n n • n i	.υυ • ομ	100.0h	O O OP	00.0	00.0

TOTAL NUMBER OF OBSERVATIONS.

864

USAF ETAC, E 44 0-14-5 (154-4) MENOUS SUITONS OF THIS FORM ARE OBSOLE

CEILING VERSUS VISIBILITY

35032

RHEIN-MAIN APT GERHANY/FRANKFURT

07-76

4A1

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1200-1400

CEILING							VI\$	BILITY (ST	ATUTE MIL	ES:					· · · · · ·	
(FEET)	≥10	≥6	≥5	≥4	≥3	≥21⁄2	≥2	≥ւ⊹ր	≥1¼	≥1	≥ 14	د, ≂	≥ ?	≥5 16	≥.	≥0
NO CEILING ≥ 20000		34.7	34.8 52.3		35.0 52.8		35.0 52.8	35.0 52.8	35.0 52.8	35.0 52.8				35.0 52.8		
≥ 18000 ≥ 16000		52.3 52.3	52.9 52.9	53.3 53.3	53.4 53.4		53.4		53.4 53.4	53.4 53.4		53.4 53.4	53.4	53.4	53,4	23.4
≥ 14000 ≥ 12000		54.0	54.5	54.9	55.0 58.5	55.0	55.0 58.5	55.0	55.0 58.5	55.0 58.5	55.0	55.0	55.0		55,0	. ,
≥ 10000 ≥ 9000		59.4	60.1	60.5	60.7	60.8	61.0	61.0	61.0	61.0		61.0	61.0	1	61.0	51.0
≥ 8000 ≥ 7000		61.9	63.1	63.5	63.8		64.0	64.0	62.7 64.0 66.0	64.0	64.0	64.0	64.0	64.0	64.0	
≥ 6000 ≥ 5000		68.2 74.1		70.6		71.1	71.2	71.2	71.2	71.2	71.2		71.2	71.2	71,2	71.2
≥ 4500 ≥ 4000		78.0 82.8	79.5 84.4	80.8	81.1	81.2	81.4 86.4	81.4		81.4	77.5 81.4	77.5 81.4	77.5 81.4	31.4	81.4	31.4
≥ 3500 ≥ 3000		85.9 89.2	37.6	89.2	89.5	89.6	69.7 94.2	86.4 89.7 94.3		89.7	86.4 89.7 94.3	89.7	89.7	86.4	89.7	39.7
≥ 2500 ≥ 2000		90.8		95.2	95.8 97.1	95.9	90.2		96.3	96.3		96.3		94.3	96.3	96.3
≥ 1800 ≥ 1500		92.1		96.9	97.4 98.1		97.8	97.9 98.8	97.9	97.9	97.9 98.8	97.9		97.9	97.9	97.9
≥ 1200 ≥ 1000		92.5	95.1	97.4	98.4	98.6	99.0	99.2	99.2	99.2	99.2 99.2	99.2	99.2	99.2	99.2	99.2
≥ 900 ≥ 800	_	92.5	95.1 95.1	97.4	98.4 98.4	98.7	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 700 ≥ 600		92.7	95.2	97.6	98.5	98.8	99.3	90.7	99.7	99.7 99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 500 ≥ 400		92.7	95.2 95.2	97.6	98.5	98.8	99.3	99.7 99.8	99.7	99.8	99.7	99.7	99.7 99.7 99.8	99.7	99.7	99.7 99.7
≥ 300 ≥ 200		92.7 92.7	95.2	97.6	98.6	99.0	99.5	100.0	100.0	100.0	100.0	00.0	100.0	00.0	100.0	100.0
≥ 100 ≥ 0		92.7	95.2	97.6	98.6	99.0	99.5	100 · q	100•0l	LOO • 0]:	100.0 100.0 100.0	00.0	100.0	00.0	100.0	00.0

TOTAL NUMBER OF OBSERVATIONS

858

USAF ETAC TOTAL 0-14-5 (OL A) MENOUS EDITIONS OF THIS FORM ARE ORNOLES

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1500-1700

CEILING				······			VIS	BILITY IST	ATUTE MILL	ES)	-					
(FEET)	≥10	≥6	≥5	≥4	≥3	≥2'7	≥2	≥1′2	≥114	>1	≥ ધ	≥ 3-9	≥ 7	≥5 16	≥ .	≥0
NO CEILING		34.2				34.4	34.4	34.4	34.4	34.4			34.4	34.4	34.4	i
≥ 20000		54.0		54.1	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.7	54.2	54.2	54.2	-4.2
≥ 18000 ≥ 16000		54.5	54.4	54.5 54.6	54.6 54.7	54.6 54.7	54.6 54.7	54.6	54.6 54.7	54.6 34.7	54.6	54.6 54.7	54.6 54.7	54.6 54.7	54.6 54.7	i . ⊷I
≥ 14000		56.8		57.C		57.1	57.1	54.7 57.1	57.1	57.1	54.7 57.1	57.1	57.1	57.1	57.1	<u>۴۰۱ر</u> 7۰۱ر
≥ 12900		60.6	'	60.8		61.0	51.0	61.0	61.0	61.0	51.0	1 7 4 7 7	61.0	ol.C	61.0	01.0
≥ 10000		54.3		64.6	64.7	64.7	54.7	64.7	64.7	64.7	54.7	64.7	64.7	64.7	64.7	54.7
≥ 9000		65.6	65.8	66.2	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	56.3
≥ 8000		66.2		66.7	67.C	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 7000		68.3			69.3		69.5	60.5		69.5			69.5	69.5	69.5	
≥ 6000 ≥ 5000		74.4	1		75.8		75.9	75.9		75.9	75.9	1	75.9	75.9	75.9	75.9
≥ 4500		82.4					81.8 84.6		84.7	82.0			82.0	82.0	82.0	32.0
≥ 4000		88.1	1				91.5		ا مما				91.6		91.6	
≥ 3500		89.5					93.0			93.2			93.2		93.2	
≥ 3000		92.1	92.9	94.1	95.6		96.0	96.2	96.3	96.3	96.3	96.3	96.3		96.3	96.3
≥ 2500		93.4	94.3	95.5	97.2	97.5	97.5		97.9	97.9	97.9	97.9	97.9	97.9	97.3	97.9
≥ 2000		93.9		96.0						98.3			98.3			
≥ 1800 ≥ 1500		94.1	95.0	96.2			98.3			98.7	98.7		98.7	98.7	98.7	98.7
		94.3		96.7	98.5		98.8		99.4	99.4			99.4			
≥ 1200 ≥ 1000		94.3 94.3	1	96.7 96.7	98.5 98.5		98.9		99.5	99.5			99.5			
≥ 900		94.3		96.7	98.5	98.8	98.9	99.3	99.5	99.5			99.5			
≥ 800		94.3	95.3	96.7	98.5		98.9		_ : 1	99.5			99.5			
≥ 700		94.3		96.7	98.5	98.8	98.9		99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 600		94.3	95.3	96.7	98.5	98.9	99.1	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 500		94.3		96.7	98.5		99.1	99.4					99.6			
≥ 400		94.3			98.6		99.2				99.8					
≥ 300 ≥ 200		94.3		96.7	98.6	99.2	99.4			1				4		100+0
		94.3		96.7	98.6		99.4					100•1				
≥ 100		94.3	1													100.0
لنستسا		1 77 0 3	7303	7001	75.10	77.05	7707	7700	TOOOR	100.00	TOO . O	TOO)	+00.0	100.0	F-00.0	WOO O

CEILING VERSUS VISIBILITY

8

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY (ST)	ATUTE MIL	ES,						
(FEET)	≥10	≥6	≥5	≥4	≥3	≥212	≥2	≥1?	≥1	≥1	≥ 34	≥ 2.8	≥ 7	≥ 5 16	≥ '•	≥0
NO CEILING ≥ 20000		33.1 49.2	34.0 50.5		34.8 52.6	34.9 52.8	34.9 52.8			34.9 52.9	34.9 52.9		34.9 52.9	34.9 57.9	34.9 £2.9	4.9 2.9
≥ 18000 ≥ 16000		49.5 49.5	50.8 50.8	52.2			53.0 53.0		53.1 53.1	53.1 53.1	53.1 53.1	53.1 53.1	53.1 53.1	53.1 53.1	53.1 53.1	30.1ر 3.1ر
≥ 14000 ≥ 12000		51.0 56.1	52.3 57.7	53.7 59.1	54.3 59.7	54.6 59.9	59.9	60.0	54.7 60.0	54.7 60.0			54.7 60.0	54.7 60.0	60.0	
≥ 10000 ≥ 9000		59.9 63.6	61.0	67.0	67.9	63.9 68.1	63.9		64.1	64.1 68.3	64.1 68.3		64.1	68.3	64.1 68.3	
≥ 8000 ≥ 7000		67.6	67.3	69.2 71.3	70.1		72.7	73.0	70.8	73.C		73.0		70.d 73.0		
≥ 6000 ≥ 5000		71.9			76.7 82.0				83.0			83.0	77.0 83.0	77.6 83.0		
≥ 4500 ≥ 4000		77.8 82.2		87.7	84.0 89.4	89.8	90.0	90.5	90.9	91.C	91.0	85.1 91.0				
≥ 3500 ≥ 3000		83.9	88.7	92.2		94.4	94.8	95.4	95.7	95.8	95.8	93.0 95.5	95.8	95.8	95.8	95.8
≥ 2500 ≥ 2000		87.9 87.9	90.6	94.2	96.4	96.8	97.2	97.7	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 1800 ≥ 1500		88.1	90.9	94.7	96.7 97.0	97.4	97.9	98.5	98.8	98.9	98.9	91.9	98.9	98.9	98.9	98.9
≥ 1200 ≥ 1000	-	88.3	91.2	95.1	97.5 97.5	97.9	98.3	98.9	99.4	99.5	99.5	99.5	99.5		99.5	99.5
≥ 900 ≥ 890		38.3	91.2	95.1 95.1	97.5 97.5	97.9	98.3		99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 700 ≥ 600		68.3	91.2	95.1	97.6	98.0	98.5	99.1	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 500 ≥ 400 ≥ 300		88.3 88.3				98.1 98.1			99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.6
≥ 200		88.3	91.2	95.1		98.2	98.7	99.3	99.9		100.0	100.0	100.0	100.0	100.0	100.0
≥ 100 ≥ 0		88.3 88.3				98.2 98.2				100.0 100.0						100.0

TOTAL NUMBER OF OBSERVATIONS.

USAF ETAC TOM 0014-5 (OL A) MEYIOUS ED

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-75

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VI\$	IBILITY (STA	ATUTE MILI	ES [,]						, <u>.</u>
FEET	≥10	26	≥5	≥4	≥3	≥2'7	≥2	≥1'7	≥1'₄	≥1	≥ ¹ ,	≥ '•	<u>≥</u> '>	≥ 5 16	≥ .	≥0
NO CEILING ≥ 20000		44.3 50.5	45.7 51.9	47.2 53.8		47.6 54.7	47.9 55.0					47.9 55.0				
≥ 18000 ≥ 16000		50.5 50.5	51.9 51.9		54.6	54.7 54.7	55.0 55.0	55.0	55.0	55.0	55.0			55.0		T
≥ 14000 ≥ 12000		52.6 57.0	54.0 58.6			- · · · · ·	57.1 61.8	57.1 61.8		_	57.1 51.8	57.1 61. ^p	57.1 61.8	57.1 61.8	57.1 61.8	57. 61.
≥ 10000 ≥ 9000		61.7	66.8			07.9	66.8 70.1		66.8 70.1		66.8 70.1	66.9 70.1	66.8 70.1	66.8 70.1	70.1	56. 70.
≥ 8000 ≥ 7000		65.9 70.7	58.0 73.1			71.1 76.3	71.6 76.9	71.7 77.0			77.0		71.7 77.0	71.7 77.0		
≥ 6000 ≥ 5000		74.9	77.6 80.1	-	80.9 83.5		-,-							84.6	84.6	ي 4
≥ 4500 ≥ 4000		79.0 80.9	84.0		86.3 88.4	88.6	83.2	87.3 89.5	89.5	89.5	89.5	69.5		89.5	89.5	39
≥ 3500 ≥ 3000		83.1 84.2	86.1 87.3	89.2 90.6		92.8		91.9 94.0		94.0	94.0	94.1	94.0	91.9 94.0	04.0	94
≥ 2500 ≥ 2000		85.0 86.5	89.6	93.0	95.3	95.7	96.4	97.0	97.0	97.0	97.0	97.0			97.0	37
≥ 1800 ≥ 1500		86.8 87.2	90.3	94.0	96.3	97.0	97.7	98.5		98.5			97.7 98.5	97.7 98.5		∌ 8
≥ 1000 ≥ 1000		87.2 87.2	90.3	94.0	96.6	97.5	98.2		99.1	99.1	99.1	98.6	98.6 99.1	99.1	99.1	99
≥ 900 ≥ 800		87.2	90.3		96.7		98.3	99.2	99.2	99.2	99.2	99.2			99.2	99
≥ 700 ≥ 600		87.2	90.3	94.0	96.8		98.5		99.3	99.3	99.3	99.3		99.3	99.3	99
≥ 500 ≥ 400		87.2	90.3	94.1	97.0	98.0	98.7	99.6	99.6	99.6	99.6			99.6	99.5	99
≥ 300 ≥ 200		87.2	90.3	94.1	97.0 97.0		99.1	100.0	100-0		100.0	100.0	100.0	100.0		100
≥ 100 ≥ 0		87.2		94.1	97.0			100.0								

TOTAL NUMBER OF OBSERVATIONS.

USAF ETAC NESS 0-14-5 (QL A), MEMOUS BOTTONS OF THIS FO

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

0000-0200

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

					(, ,,		OURL	. 000			_					_
CEILING							VIS	BILITY	ATUTE MILI	ES						
FEET	≥10	≥6	≥5	≥4	≥3	≥212	≥2	≥117	≥114	≥ı	≥ ¼	≥>.	5,3	≥5 16	≥.	≥0
NO CEILING		46.8	48.5			54.3	54.4	54.5	54.5	54.6	54.8	54.8	54.8	54.8	54.8	54.1
≥ 20000		51.7					50.8		60.9				61.1			51.
≥ 18000 ≥ 16000		51.7	53.7									61.1	61.1	61.1	61.1	ol.
		51.7		57.5							61.1	61.1				51.
≥ 14000 ≥ 12000		52.9	***	1										62.3		
		54.8		60.5		63.8	63.9	64.0								
≥ 10000		59.1	61.1						69.6							
				67.9				71.8						72.1		
≥ 8000 ≥ 7000		63.3				73.9		74.5		74.7		74.8				
		66.7		73.8		77.7	78.1	78.5	78.6	78.7	78.8	78.9	78.8			
≥ 6000 ≥ 5000		70.6	73.0								83.3			83.3		
		74.0				86.2	86.5	87.0	87.1		87.4		87.4	07.4		
≥ 4500 ≥ 4000		76.1		83.9				89.3			89.7					-
		77.0		85.2					90.9	91.0	91.1	91.1				
≥ 3500 ≥ 3000		78.0		86.3				91.9	92.1	92.2	92.3	92.3				
		79.3		88.0											94.0	
≥ 2500 ≥ 2000		80.1		89.3				95.4			95.8				95.8	
		60.7		90.1							97.1		97.1		97.1	
≥ 1800 ≥ 1500		80.7		90.1							97.2				97.2	
		81.0		90.5												
≥ 1200 ≥ 1000		81.3		90.9							98.6					
		81.3		90.9		97.4	97.8	98.4	98.6	98.7	98.8	98.9	98.8	98.8	98.8	
≥ 900 ≥ 800		81.3		90.9		97.4	97.8	98.4	98.6	98.7	98.8	98.5	98.8	98.8	98.8	
		81.3		91.0												
≥ 700 ≥ 600		81.3		91.2							99.3					1
	<u> </u>	81.3		91.2							99.3					
≥ 500 ≥ 400		81.3					98.4				99.4					
	<u> </u>	81.3		91.2							99.5					
≥ 300 ≥ 200		81.3	- • •				98.9	97.6	99.8	79,9	100.0	100.0	100.0	100.0	100.0	rco.
		81.3		91.2	97.0	.90.4	98.9	99.6	99.8	99.9	100.0	100.0	100.0	100.0	100.0	130.
≥ 100 ≥ 0		81.3		91.2												
	<u> </u>	81.3	84.4	91.2	97.0	98.4	93.9	99.6	79.8	99.9	100.0	100.0	T00.0	100.0	T00.0	100

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CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING						-	VIS	BILLTY ST.	ATUTE MIL	ES						
(FEET)	≥10	≥6	≥5	≥4	≥3	≥2'3	≥2	≥1 🤈	51, *	≥1	≥ 14	≥ 1,9	≥ ?	≥5 16	≥ .	≥0
NO CEILING ≥ 20000		28.8	31.6		41.3				47.3		47.3	47.3	47.3	47.3	47.3	47.
≥ 18000		33.8	37.5					54.9		55.1	55.1	55.1	55.1	55.1	55.1	ۍ ځ ر
≥ 16000		33.9 33.9	37.6 37.6		48.4	50.8			55.2		55.2	55.2	55.2	55.2	55.2	j5.
≥ 14000		34.1	37.9		48.4	50.8			55.2		55.2	55.2	55.2	55.2	55.2	55
≥ 12000		37.3	41.4	44.8	52.1	51.0 54.6		55.2	55.5			55.5	55.5	55.5	55.5	, 55
≥ 10000		40.7	45.0	49.2	57.1	59.6		58.9		59.1	59.1	59.1	59.1	59.1	59.1	<u>، ۹ د</u>
≥ 9000		42.1	46.6		59.1	61.6		64.4	64.8				64.8	64.8	54.8	55
≥ 8000		43.5	48.0	52.0	60.7	63.3		68.6	69.0		66.8		69.0	69.0	66.6	<u>.7</u> ر
≥ 7000		44.9	49.5	54.4	62.5	65.5		71.3	71.7	71.7	71.7	71.7	71.7	71.8	69.0 71.0	-
≥ 6000		47.9	52.8	58.3	67.1	70.3		76.6	77.1	77.1		77.1	77.1	77.2	77.2	72
≥ 5000		51.9	56.8	62.5	71.8	75.0		81.8	82.4	82.4		82.4	82.4	82.6	82.5	33
≥ 4500		53.3	58.4	64.3	74.2	77.4		84.3	84.9	84.9		84.9	84.9	85.2	85.2	<u>.5.</u>
≥ 4000		55.2	60.3	66.5	76.7	80.2	83.7	87.5	88.1	88.1	38.1	88.1	88.1	88.3	88.3	88
≥ 3500 ≥ 3000		56.5	61.5	67.8	78.4	82.0	95.5	89.3	89.9	89.9		89.9	89.9	90.1	90.1	90.
		57.8	62.8	69.4	80.2	82.8	87.6	91.4	92.2	92.2	92.2	92.2	92.2	92.4	92.4	92
≥ 2500 ≥ 2000		58.6	63.7	70.4	81.7	85.4	89.3	93.1	93.8	93.5	93.8	93.8	93.8	94.1	94.1	94.
		59.7	64.5	71.7	83.1	86.9	90.7	94.6	95.3	95.3		95.3	95.3	95.5	95.5	96
≥ 1800 ≥ 1500		59.8	64.9	71.8	83.2	87.0	90.8	94.7	95.4	95.4		95.4	95.4	95.7	95,7	96.
≥ 1200		60.6	65.7	72.7	84.4	88.2	92.0	95.9	96.6	96.6		96.6	96.6	96.9	96.9	97.
≥ 1000		60.6	65.7	73,g	84.7	88.5	92.4	96.3	97.0	97.C	97.0	97.0	97.0	97.2	97.2	97
≥ 900		50.8	66.0	73.2	84.9	88.8	92.8	96.7	97.5	97.5		97.5	97.5	97.7	97.7	98
≥ 800		60.8	66.0	73.3	85.0	88.9	92.9	96.9	97.6	97.6	97.6		97.6	97.8	97.8	98.
≥ 70°		8.00	66.0	73.3	85.g	88.9	92.9	96.9	97.6	97.6		97.6	97.6	97.8	97.8	98.
≥ 600	- 1	60.8	66.0	73.3	85.0	88.9	92.9 92.9	97•g	97.7	97.7	97.7	97.7	97.7	97.9	97.9	58.
≥ 500		60.8	66.0	73.3	85.Q	89.0		97.0	97.7	97.7	77.7	97.7	97.7	97.9	97.9	98.
≥ 400	Į	60.8	66.d	73.3	85.d	89.d	93.2		98.1	98.1	98.1	98.1	98.1	98.3	98.3	98.
≥ 300		60.8	66.0	73.3	85.Q	89.0	93.2	97.5	98.2	98.2	99.0	98.4	98.4	98.7	98.7	99.
≥ 200	j	60.8	66. Q	73.3	85.0	89.1	93.4	97.8	98.6	98.9	99.3	99.0	99.0	99.3		-
≥ 100		60.8	66.0	73.3	85.d	89.1	93.4	97.8	98.6	98.9	99.3	99.3	99.3	99.5	99.51	
≥ 0	- 1	60.8	66.Q	12.73	85.d	89.1	93.4	97.8	98.6	98.9	99.3	99.2		99.5		

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CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

67-76 YEAR

MONTA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0000-0800

CEILING							VIS	BILITY (STA	TUTE MILI	ES)						
·FEET·	≥10	≥6	≥5	≥4	≥3	≥2'2	≥2	ביוו≤	≥114	≥1	≥ 1.	≥ '₃	≥ '?	≥5 16	≥ '•	≥0
NO CEILING ≥ 20000		30.1 37.2		38.3 46.8	44.6 53.6	45.1 54.2	46.1 55.7	46.7 56.6	40.8	47.0 56.8			47.0 56.8		47.0 56.8	47.1 36.9
≥ 18000 ≥ 16000		37.2 37.5	1	46.8 47.1	53.7 54.0	54.3 54.6	55.9 56.1	56.7	56.8 57.0		56.9 57.1	56.9 57.1	56.9 57.1	56.9 57.1	56.9 57.1	57.0
≥ 14000 ≥ 12000		38.1 41.5		47.8 51.8	54.8 59.4	55.4 60.2	56.9		57.8 62.8		58.0 62.9	58.0 62.0	59.0 62.9	58.0 62.9	58.0 62.9	58.1 0.0د
≥ 10000 ≥ 9000		44.0	50.5		66.5	65.2	67.3	68.5 71.1	68.6 71.2	68.7 71.3	68.7 71.3	68.7 71.3	68.7 71.3	68.7 71.3	68.7 71.3	38.9 71.4
≥ 8000 ≥ 7000		46.1 47.2	52.0	58.4	68.5	68.3	70.4	71.5 73.2	71.7 73.3	71.8	71.3 73.4	71.8 73.4	71.8 73.4	71.8 73.4	71.8 73.4	71.9
≥ 6000 ≥ £000		50.2 54.1	59.0	63.3	73.0 78.0	74.2 79.4	76.6	77.9 83.4	78.1 83.6		78.3 83.8	78.3 83.8	78.3 83.8	78.3 83.8	78.3 83.8	78.5 84.0
≥ 4500 ≥ 4000		55.9 58.1	63.0	69.7 72.1	79.7	81.1	83.8 86.8		85.5	88.6	85.7 88.6	85.7 88.4	85.7 88.6	85.7 88.6	85.7 88.6	35.8 38.8
≥ 3500 ≥ 3000		58.3 59.6	64.5	72.4	52.B 84.4		87.1 89.2	88.6 90.7	88.9 91.0		89.1 91.2	69.1 91.2	89.1 91.2	89.1 91.2	89.1 91.2	89.2
≥ 2500 ≥ 2000		60.2	66. 1	74.6 76.0	85.5				92.4		92.6	92.6	92.6 94.1	97.6 94.1	92,6 94.1	92.7
≥ 1800 ≥ 1500		61.8	68.5	76.5	87.4 89.1	89.1 91.0	92.6	96.4	94.4		96.8		94.6	94.6	94.6 96.8	
≥ 1200		63.8	69.2	78.9	89.8 90.4	91.7 92.3	95.9	97.1 97.7	97.3 97.9		97.5 98.1	97.5 98.1	97.5 98.1	97.5 98.1	97.5 98.1	98.2
≥ 900 ≥ 800		63.8	69.2	78.9	90.5			98.0 93.1	98.2 93.4	98.5	98.5 98.6	98.6	98.5 98.6			98.7
≥ 700 ≥ 600		63.8	69.2	78.9 78.9	90.6	92.9		98 • 2 98 • 5	98.5	99.1	98.7 99.1	98.7 99.1	98.7	98.7 99.1	98.7 99.1	98.8
≥ 500 ≥ 400		63.8	69.2	78.9 78.9	90.7	93.0	96.8	98.8	99.1 99.2	99.5 99.6	99.5	99.8	99.5	99.5	99.8	
≥ 300		63.8 63.8	69.2	78.9 78.9	90.7	93.0	96.8	98.8	99.2	99.8	99.9	99.9		99.9	99.9	100.0
≥ 100 ≥ 0		63.8		78.9	90.7	93.0	95.8 96.8		- ' '1	2	99.9			99.9 99.9		100.0

TOTAL NUMBER OF OBSERVATIONS

824

USAF ETAC 10144 0-14-5 (OL A) PRÉVIOUS EDITIONS OF THIS FORM ARE OBSOLE

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CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY (STA	ATLITE MIL	E\$:						
(FEET)	≥10	≥6	≥5	≥4	≥3	בי2≤	≥2	≥15	≥۱۱،	≥1	≥ ¹ 4	≥ 38	≥ ,	≥5 16	≥'•	≥0
NO CEILING ≥ 20000		39.1 47.3	41.0		43.7	43.7 53.1	43.8 53.2	43.8	43.8 53.2			43.F 53.7		43.9 53.2		
≥ 18000 ≥ 16000		47.4	49.7	51.8 52.3	53.1 53.5	53.2	53.3	53.3	53.3	53.3	53.3	53.3		53.3 53.8	53.3	
≥ 14000 ≥ 12000		48.5 51.2	50.9		54.2	54.4 57.6	54.5 57.7	54.5	54.5 57.7	54.5	54.5		54.5	54.5 57.7		54
≥ 10000 ≥ 9000		54.7 56.3	57.8 59.8		61.8		62.6	62.6	62.5	62.6	52.6			62.6	62.6	52 64
≥ 8000 ≥ 7000		57.0 58.1	60.5		65.0	67.1	60.1	66.1 67.8	66.1 67.8	66.2	66.2			65.2		_
≥ 6000 ≥ 5000		61.2			70.5 74.7		71.8	71.8	71.8	71.9	71.9	71.0	71.9	71.9	71.9	71
≥ 4500 ≥ 4000		66.1	70.0		75.6	76.3	77.0		77.2	77.4	77.4		77.4	77.4	77,4	77
≥ 3500 ≥ 3000		72.1 75.7	76.4	80.3 84.4	82.7	83.4	84.3	84.6	84.6	84.7	84.7	84.7	84.7	84.7	84.7	84
≥ 2500 ≥ 2000		78.2 80.4		87.3 89.7	90.0	90.8	91.8	92.2	92.2	92.3	92.3	92.3		92.3		92
≥ 1800 ≥ 1500		81,2 82.5		90.6	93.6		95.4	95.8 97.8	95.8			95.9	95.9	95.9 97.9		
≥ 1200 ≥ 1900		83.5 83.5	89.4		96.6			99.1	99.2			99.3		99.3 99.7		
≥ 900 ≥ 800		83.5 83.5	59.2 89.2	93.4 93.4	96.6	97.7	98.7 98.7	99.3	99.4	99.7	99.7 99.7	99.7	99.7	99.7	99.7	99 99
± 700 ≥ 600		83.5 83.5	59.2 89.2	93.4 93.4	96.6	97.7 97.7	98.7 98.7	99.4	99.5			99.8		99.8 99.8		
≥ 50° ≥ 400		83.5 83.5	89.2 39.2	93.4 93.4	96.6	97.7 97.7	98.7 96.7	99.4	99.5		99.8 100.0	99.8 100.9		99.8 100.0		
≥ 300 ≥ 200		83.5 83.5	89.2 89.2	93.4	96.6 96.6	97.7 97.7	98.7 98.7	99.4			100.0 100.0			100.0		
≥ 100 ≥ 0		83.5		7 ~ 7 7	96.6	97.7	98.7	99.4			100.0			100.0		

TOTAL NUMBER OF OBSERVATIONS.

861

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	IBILITY (STA	ATUTE MIL	ES)						
(FEET)	≥10	≥6	≥5	≥4	≥3	≥?'ז	≥ 2	≥112	≥14	≥1	≥ 14	,•	≥ 'ז	≥5 16	≥ '₄	≥0
NO CEILING ≥ 20000		39.6 50.9	39.6 51.0			40.0 51.5			-			40.0 51.5				
≥ 18000 ≥ 16000		51.0 51.1	51.1 51.3			51.6 51.7	51.6 51.7	51.6 51.7	51.6		51.6 51.7		51.6 51.7	51.6 51.7	51.6 51.7	51.6 51.7
≥ 14000 ≥ 12000		52.0 56.2				52.6 56.9			52.6 56.9		52.6 56.9	52.6 56.9	52.6 56.9	52.6 56.9		
≥ 10000 ≥ 9000		62.1	62.9	63.7	62.5 64.i	64.2	62.7	62.7	64.3			62.7 64.3	62.7 64.3	62.7		
≥ 8000 ≥ 7000		64.3		66.6		65.2	67.2	65.5 67.5	65.5 67.5	67.5	67.5	65.5		65.5 67.5	67.5	55.5 07.5
≥ 6000 ≥ 5000		68.8 73.7	70.5 75.4	76.8	77.3	72.0 77.4	72.1 77.6		72.4		77.8	72.4	72.4	72.4 77.8		72.4
≥ 4500 ≥ 4000		76.8 82.4	84.4	86.0	80.7	80.8 87.0	F7.2	87.4	81.2 87.5		87.5	81.7 87.5	81.2 87.5	81.2 87.5		31.2 87.5
≥ 3500 ≥ 3000		85.4	91.1	92.9	93.8	90.0	94.1	94.4	90.5	94.5	94.5	90.5		90.5	94.5	94.5
≥ 2500 ≥ 2000		90.3	92.7	94.8	95.8	95.1 96.3		96.8	95.6	96.9	96.9	95.6	96.9	95.6 96.9	96.9	96.9
≥ 1800 ≥ 1500		90.8	93.5	95.8	96.9		97.6		97.5	98.0	98.0	97.5 98.6	98.0			98.0
≥ 1200 ≥ 1000		91.6 91.8 92.0	94.2	96.5	98.2	98.8	99.2	99.5		99.6	98.6 99.6	99.4	99.6	99.6	99.0	99.6
≥ 900 ≥ 800		92.0	94.4	96.6	98.4	99.0	99.4	99.8		99.9	99.9	99.0	99.9	99.9	99.9	99.9
≥ 700 ≥ 600		92.0	94.4	96.6	98.4	99.0	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500 ≥ 400 ≥ 300		92.0	94.4	96.6	98.4	99.0	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		92.0	94.4	96.6	98.4	.99.0	99.4	99.9	100.0	100.2	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		92.0			98.4						100.0					

USAF ETAC JUL 64 0-14-5 (OL A), PREVIOUS EDITIONS OF THIS FOR

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CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE

(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING							VIS	BILITY (ST	ATUTE MILI	ES:						
(FEEI)	≥1(≥6	≥5	≥4	≥3	≥2⅓	≥ 2	≥1%	≥15	≥ì	≥ 14	≥ ⅓	≥ ′⁄2	≥5 16	≥:₁	≥0
NO CEILING ≥ 20000		41.5 52.7	41.6 52.8		41.7 53.1	41.8 53.2	41.8 53.2					41.9 53.3			53.3	41.7 23.3
≥ 18000 ≥ 16000		52.8 52.8	53.0 53.0	53.1 53.1	53.2 53.2	53.3 53.3	53.3 53.3	53.4 53.4	53.4 53.4	53.4 53.4	53.4 53.4	53.4 53.4	53.4 53.4	53.4 53.4	53.4	53.4
≥ 14000 ≥ 12000		54.0 57.8	54.1 58.1	54.3 58.3	54.4 58.4	54.5 58.5		54.6 58.6	54.6 58.6	54.6 58.6		54.6 58.6	54.6 58.6		58.6	54.6 28.6
≥ 10000 ≥ 9000		65.9	64.8	67.2	65.9	66.0 67.8			66.2 68.0		66.2 68.0	66.2			68.0	58.0
≥ 8900 ≥ 7000		66.7		71.0	69.0 71.7	69.1 71.9		69•3 72•2	69.3 72.2	72.2	72.2	69.3	72.2	72.2	72.2	72.2
≥ 6000 ≥ 5000		74.6 31.0	75.2 81.6		77.1 83.6			77.7 84.2	77.7 84.2	77.7 84.2	77.7 84.2	77.7 84.2	77.7 84.2		77.7 84.2	77.7
≥ 4500 ≥ 4000		83.8	87.8		90.3	86.6 90.5	90.6				91.0			91.0	91.0	87.0 91.0
≥ 3500 ≥ 3000		91.2	92.4	91.5	92.7	92.9 95.7	95.9		96.2		96.2	93.4	96.2	96.2	90.2	93.4
≥ 2500 ≥ 2000		91.8		94.9	96.3		97.6	98.0	98.0	98.0	98.0	97.2 98.0	98.0	98.0	98.0	97.2 98.0
≥ 1800 ≥ 1500		92.7		95.9	97.3 98.0		98.5				98.8			98.8	98.8	98 • 1 98 • 8
≥ 1200 ≥ 1000		93.6 93.6	95.1	97.0 97.0	98.7	98.9	99.2	99.6 99.6	99.8	99.8	99.8	99.8	99.0	99.8	99.8	
≥ 900 ≥ 800		93.6	95.1	97.0 97.0	98.8	98.9 99.1 99.1	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700 ≥ 600 ≥ 500		93.6	95.1	97.0		99.1	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500 ≥ 400 ≥ 300		93.6	95.1	97.0	98.8	99.1	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		93.6	95,1	97.0	98.8	99.1	99.4	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100 ≥ 0		93.6		797.0	1000	3 3 7 7	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								100.0	. 1

TOTAL NUMBER OF OBSERVATIONS_

844

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CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1800-2000

CEILING (FEET,		······					VIS	IBILITY (ST	ATUTE MIL	.ES1			 ,			}
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1'5	≥1'4	≥1	≥ կ,	≥ %	≥ ⁄3	≥5 16	≥ '₄	≥0
NO CEILING ≥ 20000		40.9 56.0	41.0	1		41.7 57.9						41.7		41.7	41.7	41.7
≥ 18000		56.4 56.4	57.3	58.0	58.4	38.4	58.4	58.4	58.4	58.4	58.4	57.9 58.4	58.4	57.9 58.4	57.9 58.4	57.9 58.4
≥ 14000 ≥ 12000		57.5 60.5	58.6	59.3	59.7	59.7	59.7	59.7	59.7	59.7	59.7	58.4	58.4 59.7	58.4 59.7	58.4 59.7	59.4 59.7
≥ 10000 ≥ 9000		63.8	67.6	69.0	73.2	70.2	70.3	70.3	63.7 70.3	70.3	70.3	63.7 70.7	63.7	63.7	63.7	63.7
≥ 8000 ≥ 7000		68.6	70.5	72.8	74.6	74.9	74.9	75.8	75.8 75.1	73.8	73.8	73.8	73.8	73.8	73.8	73.8
≥ 6000 ≥ 5000		75.0	73.8	79.2	77.9 81.1	78.2 81.4	81.5	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
≥ 4500		79.6 61.3	83.5	86.1	88.1	86.4		86.8	86.8	86.8	86.8	85.A 89.0	86.8	86.8	86.8	39.0
≥ 4000 ≥ 3500		84.7	86.9	90.6	91.6	92.1	92.3	92.8	92.9	92.9	94.2	92.9	92.9	92.9	92.9	92.9
≥ 3000 ≥ 2500		86.2 87.0	88.7	91.7	94.2	94.8	95.0	95.5	95.6	95.6	95.8	95.8	95.8	95.8	94.2 95.8	94.2
≥ 2000		87.4	90.2	93.5	96.2		97.3	97.8	97.9	97.9			97.3 98.0	97.3 98.0	97.3 98.0	97•3 98•0
≥ 1500		87.9	90.7	94.5	97.2	98.0	97.4 98.2	97.9 98.8	98.9 98.9	98.0 98.9		96 • 1 99 • 1	98.1	98.1 99.1	98.1	98.1
≥ 1000		88.2	91.3	95.2	97.9 98.0	98.7 98.8	98.9 99.1	99.5 99.6	59.6 99.8			99.8	99.8	99.8	99.8	99.8
≥ 900 ≥ 800		88.2	91.3		98.0 98.1	98.8 98.9	99.1	99.5	99.8	99.8	99.9 .00.01	99.9	99.9	99.9	99.9	99.9
≥ 700 ≥ 600		88.2 88.2	91.3 91.3	95.2 95.2	98.1	98.9	99.2 99.2	99.3	77.7	77.7	00.01	00.01	00.01	00.01	.00.01	0.00
≥ 500 ≥ 400			91.3		98.1 98.1	98.9	99.2	99.8	99.9	77.7	.00.01	00 • 01	00.01	00.02	00.01	00.00
≥ 300 ≥ 200		88.2	91.3	95.2	98.1	98.9	99.2	99.8	77.7	79.91	00.01	00 • OII	00.01	00.01	OO OH	00.0
≥ 100 ≥ 0			91.3	95.2	98.1	98.9	77 . 6	77• ગ	77.9	99.91	00.01 00.01 00.01	00 a 011	On oh	$\Omega \Lambda - \Omega \Pi$	00.01	20.0

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

2100-2300

CEILING							VISI	BILITY (ST	ATUTE MIL	ES)						_]
(FEET)	≥10	≥6	≥5	≥4	≥3	≥2⅓	≥ 2	21%	≥1%	≥≀	≥ 14	≥,•	د, ≥	≥5 16	≥.	≥0
NO CEILING ≥ 20000		47.2 55.8	47.8 56.6		49.1 58.1	49.3 58.3		49.6 58.5	58.5	58.5		49.5 58.5	49.6 58.5	58.5	58.5	58.5
≥ 18000 ≥ 16000		55.8 55.8		57.6 57.6	58.1 58.1	58.3 58.3	58.4 58.4	58.5 58.5	58.5 58.5	,		58.5 58.5	58.5 58.5		58.5 58.5	
≥ 14000 ≥ 12060		57.1 59.5	58.3 60.7	59.3 62.1	59.8 62.8	60.0	63.3	60•2 63•4	60•2 63•4	60.2 63.4	63.4	60 · 2	60.2	60.2 63.4	60.2 63.4	
≥ 10000 ≥ 9000		66.4	68.1	67.8 69.8	68.7 71.0	69.1 71.4	69.2 71.5	69.3 71.9	71.9	71.9	71.9	69.3 71.9	69.3 71.9	71.9	69.3 71.9	71.9
≥ 8000 ≥ 7000		68.0 72.0	69.7 73.9	71.5 75.8	72.7 77.1	73.1 77.5	73.2 77.7	73.7 78.3	73.8 78.4	78.4	78.4		73.b 78.4	73.8	73.8 78.4	73.8 78.4
≥ 6000 ≥ 5000		76.7 80.2	78.8 82.4	84.4	82.1 85.9	82.5 86.4		63.4 87.3	87.4	87.4		83.5 87.4	83.5	87.4	83.5 87.4	87.4
≥ 4500 ≥ 4000		82.8	85.0 87.8	86.9 89.7	88.5 91.4	89.1 92.1		89.9 93.0	90 • 1 93 • 1	90.1 93.1	50.1 93.1	90.1 93.1	90.1 93.1	90.1 93.1	90.1 93.1	90.1 93.1
≥ 3500 ≥ 3000		86.3 87.5	88.6 90.1	90.5	92.4	93.1		93.9 95.9	94.1 96.1	94.1 96.1	94.1 96.1	94 • 1 96 • 1	94.1 96.1	94.1 96.1	94,1 96.1	94.1 96.1
≥ 2500 ≥ 2000		88.5	90.8		95.4 95.8	96.2		97.1 97.5		97.7	97.7	97.7	97.3	97.3 97.7	97.3 97.7	97.7
≥ 1800 ≥ 1500		88.6	91.9	93.8 94.5	95.9 97.0	96.7 97.8		97.6	97.8 98.9	98.9	98.9	97.8	97.8	93.9	97.8 98.9	98.9
≥ 1200 ≥ 1000		89.6	92.4		97.5 97.5	98.3		99•2 99•2	99.4		99.4 99.4		99.4 99.4			99.4
≥ 900 ≥ 800		89.6	92.4		97.5 97.5				99.4 99.4	95.4	99.4		99.4 99.4	99.4	99.4	99.4
≥ 700 ≥ 600		89.6 89.6	92.4	95.0 95.0	97.5 97.5	98.3			99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 500 ≥ 400		89.6 89.6	92.4	95.0 95.0	97.6 97.8	98.9	99.2		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300 ≥ 200	·	89.6	92.4	95.0 95.0	97.8 97.8		99.2	99.8	100.0	100.0	100.0 100.0	100.0	100.0	100.0	100.0	100.0
≥ 100 ≥ 0		89.6		95.0 95.0	97.8 97.8			- , - 1			100.0 100.0					

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

0000-0200

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOUPLY OBSERVATIONS)

CEILING					,, <u>-</u>		VIS	BILITY (STA	ATUTE MILE	:51						
(FEET)	≥10	≥6	≥5	≥4	≥3	≥277	≥2	≥1%	≥114	≥1	≥ 14	≥',	≥ 2	≥5 16	≥.	≥0
NO CEILING ≥ 20000		50.0 53.6	1	57.2 61.5	59.9	60.1	60.3	60.5	60.5	60.6	60.6	- 1	60.6		60,0 65.1	60.8
≥ 18000 ≥ 16000		53.6 53.6	56.7 56.7	61.5	64.2	64.5	64.6	64.9	64.9	65.0 65.0	65.0			-	65.1 65.1	55.1 65.1
≥ 14000 ≥ 12000		54.1 55.8	57.2 59.3		65.1	65.3 67.5	-,-	65.7	65.7	65.8 67.9					66.0	66.0
≥ 10000 ≥ 9000		59.9 61.6		68.8 70.5	72.0	72.3		72.9	73.0 75.0	73.1 75.1	73.1 75.1	73.1 75.1	73.1 75.1	73.3 75.2	73.3 75.2	73.3 75.2
≥ 8000 ≥ 7000		63.0 66.3	69.8	75.5	75.5 79.2	79.5		76.4 80.1	76.5 80.2	76.6						76.7 20.4
≥ 6000 ≥ 5000		69.4 72.5			82.4 85.9	82.7 86.1	83.0 86.5	83.3	83.4 86.9	83.5 87.0					83,7 87.1	33.7 87.1
≥ 4500 ≥ 4000		74.9 76.5			88.9 90.8		89.5 91.5		90.0 92.0	90.1 92.1		90 • 1 92 • 1		90.2 92.2		90.2 92.2
≥ 3500 ≥ 3000		76.7 77.2		- : • -	91.7 92.8		92.3		94.2	94.3	94.3)			93.1 94.4	93.1
≥ 2500 ≥ 2000		78.5 79.0	83.2			95.5		95•8 96•7		(96.0 96.9	96.9			96•2 97•0
≥ 1800 ≥ 1500		79.2	83.7	91.0 91.2	95.9	96.3	96.9	97.4		97.6	97.6		97.6	97.8		97•4 97•8
≥ 1200 ≥ 1000		79.5 79.5		91.2 91.2	96.4 96.4	96.9	97.5 97.6		98.3 98.4			98.4 98.5	98.5	98.6		
≥ 900 ≥ 800		79.5	83.7 83.7	91.3 91.5	96.5 96.7	97.2 97.3	97.8 97.9	98 • 4 98 • 5	98.5 98.6			98.6 98.8	98.6 98.8		98.9	98.9
≥ 700 ≥ 600		79.5		91.5 91.5	96.7 96.8	97.3 97.4	97.9 98.0	98•5 98•5	98.6 98.8	98.8 98.9			98.8	99.0	99.0	99.0
≥ 500 ≥ 400		79.5	83 7	91.5	96.8	97.4 97.4	98.0		98.8 98.9			98.9 99.0			99.1	99.1
≥ 300 ≥ 200		79.5	83.7	91.5	96.8	97.4	98.0 98.0		99.0 99.3	99.1 99.4	99.1 99.5		99.5	99.6		- 1
≥ 100 ≥ 0		79.5	T	91.5 91.5	96.8	97.4 97.4			99.3 99.3	_		99.5 99.5	99.6 99.6			99.8 100.0

TOTAL NUMBER OF ORSENVATIONS

80

USAF ETAC TULA 0-14-5 (OL A) PREVIOUS EXTRONS OF THIS FORM ARE CHICAGO

2

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0300-0500

CEIUNG							VIS	BILITY (ST.	ATUTE MILI	ES'						
(FEET)	≥10	≥6	≥5	≥4	≥3	≥2%	≥2	≥11⁄2	≥1'4	≥1	≥ 14	≥ ३,	≥ ½	≥5 16	≥'4	≥0
NG CEILING ≥ 20000		27.0		36.4	43.2	45.6	47.4	49.8		50.3		50.8	50.8	i		50.8
 		31.0		41.2	48.4		53.1	55.6			56.6	56.4	56.7	56.7		6.7ر
≥ 18000		31.0		41.2	48.4	50.9	53.1	55.6	56.0	56.1	56.6		56.7	56.7	56.7	56.7
		31.0		41.2	48.4	50.9	53.1	55.6	56.0	56.1	56.6	56.4	56.7	56.7	56.7	56.7
≥ 14000 ≥ 12000		31.4	35.4	41.8	49.0	51.5	53.7	56.2	56.6	56.7	57.2	57.2	57.3		57.3	57.3
		34.8		45.9	53.4	56.0	58.2	60.8	61.2	61.3	61.8	61.8	61.9	61.9	61.9	61.9
≥ 10000 ≥ 9000		38.1	42.6	50.1	58.5	61.1	63.4	66.0	66.5	66.6		67.2	67.4	67.4	67.4	07.4
		40.4		52.4	60.9	63.6	65.9	68.6	69.0	69.2	69.6	69.8	69.9	69.9	69.9	69.9
≥ 8000 ≥ 7000		42.0		54.2	62.8	65.4	67.7	70.4	70.9	71.0	71.5	71.6	71.7	71.07	71.7	71.7
<u> </u>		43.8		56.7	65.4	68.1	70.4		73.5	73.8		74.4	74.5	74.5	74.5	74.5
≥ 6000 ≥ 5000		46.6	1	60.0	69.3	71.9	74.4		77.6	76.0	78.5	78.6	78.7	78.7	78,7	78.7
<u> </u>		50.4		64.9	75.1	77.9	80.7	63.4	84.0	84.4	84.9	85.0	85.1	85.1	85.1	85.1
≥ 4500 ≥ 4000		51.8		66.6	76.8	79.7	82.6	85.5	86.1	86.5	86.9	87.1	87.2	87.2	87.2	87.2
		53.0		68.9	79.6	82.7	86.0		89.7	90.1	90.6	90.7	90.8		90.9	90.9
≥ 3500 ≥ 3000		53.3	59.6	69.5	80.2	83.3	86.6		90.3	90.7	91.2	91.3	91.4		91.5	91.5
		56.1	61.1	71.2	82.1	85.2	88.6		92.4	92.7	93.2	93.3	93.5	93.5	53.5	93.6
≥ 2500			,	72.8	83.9		90.4		94.3	94.7	95.2	95.3	95.4			95.5
		56.8		73.5	84.8		91.4		95.3	95.6		96.7	96.4		96.5	36.5
≥ 1800 ≥ 1500		57.2		73.6	84.9 85.4	88.3	91.7	94.9	95.5	95.9		96.5	96.6		96.7 97.5	96.7
		57.2		74.0			92.1	95.5	96.3	96.6			97.8		97.9	97.9
≥ 1200		57.2	,	74.0		88.8	92.3	95.9		97.1 97.2	97.6 97.7	97.8		97.9	98.1	98.1
		57.2		74.0	85.5	88.9	92.4		96.7	97.2	97.7	97.8	97.9	97.9	98.1	98.1
2 900 ≤		57.2	1 7 7 7 1	74.0 74.0	85.5	88.9	92.4	96.0	96.7	97.2	97.7		97.9	97.9	98.1	98.1
<u> </u>		57.2		74.0	85.5	88.9	92.4	96.0	96.7	97.3	97.8	97.8 97.9	98.1	98.1	98.2	98.2
≥ 700		57.2	1	74.0	85.5	88.9	92.4	96.1	97.0	97.5		98.1	98.2		98.3	98.3
<u> </u>		37.	63.8	74.0	85.5	88.9	92.4	96.4		97.6	98.1	98.2	98.3		98.4	93.4
≥ 500 ≥ 400		57.2	7277	74.0	85.5	88.9	92.4	1	97.1 97.1	97.6		98.2	98.3		98.4	98.4
≥ 300		57.2	63.8	74.0	85.5	88.9	92.4	96.4	97.1	97.6		98.2	98.3			98.4
≥ 200		57.2	1	74.0			92.4	96.4	97.1	97.6		98.2	98.3		98.7	98.8
> 100		57.2		74.0	85.5	88.9	92.4	96.4	97.1	97.6		98.2	98.3		98.7	99.5
≥ 100		57.2							1 1 7 7	97.6			98.3			100.0
لنستا		2106	0900	.1700	22.62	70.7	7209	7004	7101	7100	70 . 1	700/	70.2	7001	70.7	100.0

USAF ETAC TOTAL

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFURT 47-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEIL'NG							VIS	191117 (\$1)	ATUTE MILI	E\$)						
(FEET)	≥10	≥6	≥ 5	≥4	≥3	≥2⅓	≥2	≥1'?	ر′ا≤	≧≀	≥ ^4	≥ 2,0	≥,	≥5 16	≥ .	≥0
NO CEILING ≥ 20000		26.1 30.0	29.5 34.3	35.3 41.0	41.9 48.1	44.8 51.0	45.7 51.9	47.0 53.3	47.0 53.3	53.5	47.4 53.7	47.4 53.7	47.5 53.8	47.5 53.8	47 5 53.8	
≥ 18000 ≥ 16000		30.0 30.0	34.3 34.3	41.1 41.1	48.3 48.3	51.2 51.2	52.2 52.2	53.6 53.6	53.6 53.6	53.7 53.7	53.9 53.9	53.9 53.0	54.0 54.0	54.0 54.0	54.0 54.0	
≥ 14000 ≥ 12000		30.2 32.1	34.8 36.9	41.6 44.1	48.9 51.9	51.9 55.2	52.9 56.3	54.3 57.7	54.3 57.7	54.4 57.8	54.6 58.0	54.6 58.0	54.7 58.1	54.7 58.1	54.7 58.1	54.7 58.1
≥ 10000 ≥ 9000		36.2 38.9	41.5	49.5 52.5	58.0 61.1	61.5 64.7	62.7	64 • 2 67 • 4	64.2	64.4	64.6 67.8	64.4 67.8	64.7 67.9	64.7 67.9	64.7 67.9	04.7
≥ 8000 ≥ 7000		39.9	48.1	53.7 57.1	62.4 65.9	66.1 69.6	67.3 70.8		68.8 72.3	68.9 72.5	59•2 72•7	69•? 72•7	69.3 72.8	69.3 72.8		72.8
≥ 6000 ≥ 5000		46.2 50.3	57.1	62.1 67.1	71.7 77.1	75.7 81.5	77.0 83.0	78.7 84.8	78.7 84.8	78.8 84.9	79.0 85.1	79 • ^ 85 • 1	79.1 85.3	79.1 85.3	1 ب79 85.3	اتتتا
≥ 4500 ≥ 4000		51.6 53.6	60.5	68.5 70.6	78.6 81.1	83.2 85.6	84.8	86•5 89•0	86.5 89.0	86.6 89.1	89.3	86.9 89.4	87.1 89.7	87.1 89.7	87.1 89.7	37.1
≥ 3500 ≥ 3000		54.2 55.1	62.1	71.5 73.0	82.2 83.7	86.6	88.2 89.8	90•2 91•9	90 • 2 92 • 0	90.3 92.1	90.5 92.4	90 • 6 92 • 5	90.9 92.7	90.9 92.7	90.9 92.7	92.7
≥ 2500 ≥ 2000		56.0 57.3	63.1 64.4	74.0 75.3	84.6	89.3 91.2			93•2 95•2	93.3 95.3	93.6 95.5	93.7 95.7	93.9	93.9 95.9	93.9	اختنا
≥ 1800 ≥ 1500		57.7 57.7	64.7	75.7 75.7	87.0 87.0	91.7 91.7	93.4	95.5	95.7 96.2	95.8 96.4	96.0 96.6	96 • 1 96 • 7	96.4	96.4 97.0	97.0	
≥ 1200 ≥ 1000		57.8 57.8	64.8	75.6 76.0	87.2 87.5	92.6	93.9	96.6	96.8 97.7	97.8 97.8	97.2 98.0	97.3 98.1	97.5 98.4	97.5 98.4	97.5 98.4	97.5 98.4
≥ 900 ≥ 800		57.8 57.8		76.0 76.0	87.5 87.5	92.6 92.6		97•4 97•4	97.7 97.7	97.8 97.8	98.0 98.0	98•1 98•1	98.4 98.4	98.4 98.4	98.4	98.4 98.4
≥ 700 ≥ 600		57.8 57.8		76.0 76.0	87.5 87.5	92.6 92.6	94.6	97.4 97.7	97.7 97.9	97.8 98.1	98.0 98.4	98.1 98.5	98.4	98.4 98.7	98.7	28.7
≥ 500 ≥ 400		57.8 57.8		76.0 76.0	87.5 87.5	92.7	94.8 95.0	97.9 98.1	98.1 98.4	98.4 98.6	98.6 98.9	98.7 99.1	98.9	98.9 99.3	98.9 99.3	
≥ 300 ≥ 200		57.8 57.8	,	76.0	87.5	92.7	95.0 95.0	98 • 2 98 • 2	98.6 98.6	98.8 98.8	99.3	99.4	99.6	99.6	99.8	99.8
≥ 100 ≥ 0		57.8 57.8		76.0 76.0	87.5 87.5		95.0 95.0	98•2 98•2	98•6 98•6	98.8 98.8	99.4	99.6 99.6	99.9	99.9		100.0

2

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFURT 97-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							٧ıS	BILITY .ST.	ATUTE MIL	ESI						-
FEET:	≥10	≥6	≥5	≥4	≥3	5.7 ك	≥ 2	٠,	51,⁴	≥1	≥ ¼	≥'•	≥ າ	≥5 16	≥ '4	≥0
NO CEILING ≥ 20000		39.1 45.0	41.9	45.1 51.4	47.4 54.1		48.1 54.6	48.2 54.9	48.2			48.2 54.9	48.2 54.9	48.2 54.9		
≥ 18000 ≥ 16000		45.0 45.0	48.0 48.0	51.4 51.4		54.6 54.6	54.8	54.9	54.9 54.9	54.9	54.9	54.9	54.9	54.9	54,9	
≥ 14000 ≥ 12000		45.5	48.6	52.0 54.9	54.7 58.2	55.2	55.4 58.9	55.5	55.5 59.0	55.5	55.5	55.5 59.0	55.5	55.5	55,5	55.5
≥ 10000 ≥ 9000		53.5 55.0		61.3	64.6	65.0	65.3	65.4	65.4	65.4		68.1	65.4		65.4	65.4
≥ 8000 ≥ 7000		55.9 58.6	59.7 62.6	64.4	68.1	68.7	59.0 72.4	69.4	69.4	69.4	69.4	69.4	69.4 72.8	69.4	69.4	59.4
≥ 6000 ≥ 5000		61.7	65.8	71.0	75.0	75.8	76.2	76.5	76.5		76.5	76.5	76.5	76.5	76.5	76.5
≥ 4500 ≥ 4000		63.1 68.8	70.7 73.7	76.3		81.9	82.3	82.6	82.6	82.6		82.5		82.6		82.6
≥ 3500 ≥ 3000		70.4 73.5		81.2 34.5		87.4	87.9	88.4	28,4	88.4		88.4	38.4	88.4	88.4	88.4
≥ 2500 ≥ 2000		75.0 76.3	80.2	86.3 87.8	92.3		93.8	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	
≥ 1800 ≥ 1500		76.6	1		' ' '	, 1	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7 97.8
≥ 1200 ≥ 1000		77.7	83.0	89.4			97.9 97.9				98.6 98.6		98.6 95.6			
≥ 900 ≥ 800		77.7 77.7	83.0 83.1	11111			97.9 98.1	98.6 98.8		98.6 98.8	98.6 98.8		98.6 98.8			
≥ 700 ≥ 600	•	77.7	83.1				98.4	99.2	99.2			99.2	99.2	99.2		
≥ 500 ≥ 400		77.7	83.1 83.1	89.6	96.4	97.8 97.8	98.7	99.5		99.5	99.5 99.6	99.5	99.5			99.5
≥ 300 ≥ 200		77.7	83.1	89.6	94.4	97.8 97.8	98.8	99.8 99.8			100.0					
≥ 100 ≥ ℃		77.7	83.1	89.6				99.8	99.8	100.0		100.0	100.0	100.0	100.0	100.0

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1200-1400

CEILING							V:5	IBILITY 'ST	ATUTE WILL	ES:						
(FEET)	≥10	≥6	≥5	≥4	≥3	≥2'ז	≥2	≥1%	≥1′4	≥1	≥ ७	≥',	≧′₂	≥5 16	≥.	≥0
NO CEILING ≥ 20000		45.9 54.3		46.9 55.7		47.0 56.1	47.0 56.1	47.0 56.1	47.0 56.1	47-0 !	47.0	47.1 56.1	47.0 56.1	47.0 56.1	47.0 56.1	47.0 26.1
≥ 18000 ≥ 16000		54.3 54.3	55.1 55.1	55.7 55.7	55.8 55.8	56.1 56.1	56.1 56.1	56.1 56.1	50.1 56.1	- 5ر	6.1 36.1	55.1 56.1	56.1 56.1	56.1 56.1	56.1 50.1	56.
≥ 14000 ≥ 12000		55.0 56.9	55.7 57.7	56.3 36.6	1 1	55.7 59.1	56.7 59.1	56.7 59.1	56.7 39.1	56.1 59.1	56.7	56.7 59.1	56.7 59.1	56.7 59.1	50.7 59.1	56.7 59.1
≥ 10000 ≤		62.7	64.8	64.4 65.8	54.8 66.ú	65.1	65.1 67.0	55.1 67.0	65.1 67.0	55.1 67.0	65.i 67.0	65.1 67.0	65.1	65.1 67.0	65.1 67.0	07.
≥ 8000 ≥ 7000		64.5 67.4	65.6		67.6 70.8	68.1 71.3	68.1 71.3	68.1 71.3	55.1 71.3	68.1 71.3	68.⊥ 71.3		68.1 71.3	68.1 71.3	63.1 71.3	68.1 71.3
≥ 5000 ≥ 5000		71.6 78.3		81.1	75.4 82.3	75.9 82.8	75.9 8.2.8	75.9 82.9	75.9 82.9	75.9		75.9 82.9	75.9 82.9	75.9 82.9	75.9 82.9	75.9 32.9
≥ 4500 ≥ 4000		81.0 85.1	82.5 86.6		85.2 89.6	85.7 90.1	85.7 90.1	85.9 90.2	90.2	85.9 90.2			85.9 90.2	85.9 "~.2	90.2	35.9 33.2
≥ 3500 ≥ 3006		87.3 90.4	89.0 92.1	90.				92.9 96.3	92.9 96.3	92.5 96.3		92.9 96.3	96	92.9 96.3	92.9 95.3	92.9
≥ 2500 ≥ 2000		91.2 91.9	92.8	95.5		97.0 97.9		97•1 98•0	97.1 98.0	97.1 98.0	97.1 98.0	97.1 98.0	97.1 98.0	97.1 98.0	97.1 98.0	97.1 98.0
≥ 1800 ≥ 1500		92.3 92.6			98.4	98.4 93.9	98.4 55.9	98.5 99.0	98.5 99.0	98.5	98.5 99.0	90 7	98.5		98.5 98.0	99.0
≥ 1200 ≥ 1000	!	92.6 92.6		96.4	98.5 98.5	99.0 99.1	99.0 99.1	99.1	99.1	99.3	99.1	99•1 99•3	99.1	99.3	99.1	99.1 99.3
≥ 900 ≥ 800		92.6			98.5 98.5	95 ,1 99 .1	99 .3 99.3	99.4 99.4	99.4 99.4	99.4	79.4		99.4	99.4		99.4
≥ 700 ≥ 600		92.6	94.4		98.5	99.1 99.1	99.3	99.5	99.5	99.5 ~4.6	1117			99.4	99.5 99.6	99.5
≥ 500 ≥ 400		92.6		96.4	98.5 98.5	59.1 99.1	99.3	99.8	99.6	99.8	99.9	99.9	99.9	99.9	79.9	99.9
≥ 300 ≥ 200		92.6		96.4 96.4	98.5	99.1		_^า•ูค	99.9	100.0	100.0	100.C	100.0	100.0	100.0	100.0
≥ 100 ≥ 0		92.6		96.4		99.1	99.4	99.8							100.0 100.0	

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

760- 760 د

CELLING							VIS	BILITY STA	ATUTE MIL	ES,						
iFCT	≥10	≥6	≳5	2-4	<i>2</i> 3	22☆	≥2	≥1 ;	≥1′4	≥1	≥ 1,4	≥'.	≥ 7	≥5 16	≥'.	≥0
1.0 CEILINC ≥ 30000		46.9 57.8	47.4 58.3		1	48.5 50.4						43.8 59.6			48.3 59.6	
≥ 18000 ≥ 16000		57.8 57.8	58.3 58.3			59.4 59.4	59.6 59.6		59.6 59.6		59.6 59.6	59.6 59.6		59.6 54.6	59.0 59.6	59.6 59.6
≥ 14000 ≥ 12000		59.4	59.0 62.6	63.5	64.1	64,1	6: •4 64•3	61 • 4 64 • 3	61.4 64.3		61.4 54.3	61.4	61.4	61.4 64 3	61.4	51.4
≥ 10000 ≥ 9000		69.4	68.0 70.4	71,4	72.0	72.3	70.1 72.6	70 • 1 72 • 6	70.1 72.6	70.1 72.6	70.1 72.6	70.1	70.1 72.6		70.1 72.5	70.1 72.6
≥ 8000 ≥ 7000		71.1	75.3		73.8	74.2			74.4 78.0		74.4 78.0	74.4 78.0	74.4 78.0	78.0	74.4 78.0	74.4
≥ 6000 ≥ 5000		84.7	82.1 86.2	57.7	33.3	84.7			84.9 89.0	89.0		84.9 89.0				
≥ 4500 ≥ 4000		86.2	90.7	89.3 92.6	93.3	94.0		94.2	90.6	94.2	90.6 94.2	90.6 94.2	94.2	90.6 94.2	90.6 94.2	74.2
≥ 3500 ≥ 3000		90.4		94.0 94.3	95.4	95.4	96.3					95.7			95.7 96.3	
≥ 2500 ≥ 2000		91.6 92.0	54.0	90.0	97.3	68.0	98.3	98.5	97.8 98.5	98.5	98.5	97.8 98.5	98.5	98.5	97.8 98.5	
≥ 1800 ≥ 1500		92.1	94.i	94.4	97.8	98.1			99.1	99.1	99.1	98.6 99.1	98.6 99.1	99.1	98.0	99.1
≥ 1200		92.1 92.1	94.1	96.4 96.4	97.8		99.0		99.3	99.3	99.3	99.3	99.3	99.3	99.3	
≥ 500 ≥ 800		92.1	94.1	96.5	97.9	98.8	99.1	99.4	99.4	99.4	99.4	99.4		99.4	99.4	
≥ 700 ≥ 600		92.1 92.1 92.1	94.1	96.5	97.9	98.8	99.1	99.5		99.8	99.8	99.5 99.8	99.8	99.2	99.5	99.8
≥ 500 ≥ 400 ≥ 300		92.1	94.1 94.1	96.5 96.5	97.9	98.9 98.9	99.3			100.0	100.0		100.0	99.9 100.0 100.0	100.0	100.0
≥ 200		92.1	94.1	96.5	97.9	98.9	99.3		99.9	100.0	100.0	100.0	10c.0	100.0	100.0	100.0
≥ 100 ≥ 0	. —	92.1	34.1		97.9			99.9								

TOTAL NUMBER OF OBSERVATIONS

-01

USAF/ETAC XI 44 0-14-5 (OL A) MENDUS LOITIONS OF THIS FORM, AME OBSOLE

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFURT 67-75

1600-2000

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							۷IS	BILITY ST	ATUTE MIL	ES						
(FEET)	≥10	≥5	≥5	≥4	≥3	≥2'?	≥2	≥1 2	≥1.	≥1	≥ 1,4	≥`•	≥ ;	≥5 16	≥ .	≥0
NO CEILING ≥ 20000		48.9 60.6			51.2 63.8			51.4	51.4			51.4				
≥ 18000 ≥ 16000		60.9		03.3 63.4	64.1	54.4	64.4	64.4	64.4		64.4	64.4	64.4	64.4	64.4	54.6
≥ 14000 ≥ 12000		62.3	63.6	64.6	65.5	65.7	65.7	65.8	65.8	65.8	65.8	65.0		65.8	65.8	55 • 6
≥ 10000 ≥ 9000		67.8	69.5		72.0	72.5	72.6	72.7	68.1 72.7	72.7	68.1 72.7	68.1 72.7	72.7	68.1 72.7	68.1 72.7	72.
≥ 8000 ≥ 7000		71.4	73.2	75.1	76.0 78.7	76.7	76.9	77.C	77.0	77.0	75.1 77.0	75.1 77.0	,	75.1 77.0	75.1 77.0	77.0
≥ 6000 ≥ 5000		79.2 81.9	81.2		84.3 87.0	84.9	85.3	79.9 85.4	1	85.4	79.9 85.4	79.9 85.4	85.4	79.9 85.4	79.9 85.4	79.9 55.4
≥ 4500 ≥ 4000		84.3	86.2		89.3 92.8	90.0	90.5	90.7	90.7	90.7		90.7	90.1	88.3 90.7	86.3 90.7	90.
≥ 3500 ≥ 3000		88.6	90.9	93.0	94.1	95.0	95.5	94.2	94.2		94.2	94.2	94.2	95.7	94.2	95.
≥ 2500 ≥ 2000		90.3	92.6	94.7	95.9	26.9	97.4	97.9	96.7	97.9	96.7	96.7	96.7 97.9	97.9	90.7	97.
≥ 1800 ≥ 1500		90.8	93.2	95.3	96.8	97.8 97.9	98.3	98.9	98.9	98.9	98.8	9 . 8	98.8	98.9	90.8	98.
≥ 1200 ≥ 1000		90.8	93.2	95.6 95.6	96.9	97.9	98.4	99.0	99.4	99.4	99.4	99.4	99.4	99.0	99.4	99.4
≥ 900 ≥ 800		90.8	93.2	95.7	97.1 97.1	98.0 98.0	98.4 98.5	99.4	99.4	99.4		99.4	99.4	99.4	99.4	99.
≥ 700 ≥ 600		90.8	93.2	95.7 95.7	97.1 97.1	98.0	98.5	99.4	99.5	99.5		99.5	99.5 99.5	99.5	99.5	99.5
≥ 500 ≥ 400		90.8	93.2	95.7	97.1 97.1	98.0 98.0 98.0	98.5	99.5	99.6 99.8	99.8	99.8			99.8	99.8	99.6
≥ 370 ≥ 200		90.8	93.2	95.7	97.1 97.1	98.0	98.5	99.8	00.0	100.01	99.9	00.01	00.01	99.9	00.01	99.9
≥ 100 ≥ 0		90.8	93.2	95.7	97.1 97.1	98.0 98.0	98.5	99.4	.00 • Q	100.01 100.01 100.01	.00.01	00.01	00.0	00.0	00.01	00-0

USAF ETAC MIN 0-14-5 (OL A) MENOUS

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

				_		OM: 11										
CEILING							VIS	BILITY ST	ATUIE MII	ES,						
(FEET)	≥10	≥6	≥5	≥ 4	≥3	≥27	≥ 2	≥1/2	≥1 °	≥1	≥ 14	₹,•	≥ 5	≥ 5 16	≥.	≥0
NO CEILING		53.1 57.7	55.2 60.0	57.3 62.7		58.2 63.6					58.4 63.9					
≥ 18000 ≥ 16000		57.7 57.7				63.6	63.6	63.0	63.9	67.9		63.9	63.9	63.9	53.9	63.
≥ 14000 ≥ 12000		58.5 60.3	60.9	63.6	64.2	64.5	64.2	54.7	04.7	64.7		64.7	64.7	64.7 67.0	54.7 67.0	
≥ 10000 ≥ 9000		65.0	67.7	70.7	71.5	71.9	72.2	72.4	72.4	72.4		72.4	72.4	72.4		
≥ 8000 ≥ 7000		68.3 71.5		74.4 78.1				76 • 2 80 • 1				1	76.2 80.1		75.2 80.1	
≥ 6000 ≥ 5000		76.5 80.6			54.8	85.1	85.4	85.8	85.8	85.8	85.8 90.2			85.8 90.2	95.8 90.2	_
≥ 4500 ≥ 4000		82.7 64.7									92.8 95.0					
≥ 3500 ≥ 3000		85.1 85.6		92.9 93.4	94.7	95.2	95.5	95.9	95.9	95.9	95.9 96.7	95.9	95.9	95.9	95,9	-
≥ 2500 ≥ 2000		86.4 86.8	90.3	94.3	96.2	76.9	97.3	97,8	97.8	97.8	97.8 98.3	97.8	97.8		97.8	97
≥ 1800 ≥ 1500		86.9 87.0		94.9 95.0	96.9	97.6	98.0	98.5	98.5	98.5	98.5 98.8	98.5	98.5	98.5 98.8	98,5 98.8	
≥ 1200 ≥ 1600		87.1 87.1		95.2 95.2	97.4		98.6	99.1	99.1	99.1	99.1 99.3	99.1	99.1	99.1		
≥ 900 ≥ 800			91.2	95.3 95.3	97.5	98.5	98.9	99.4	99.4	99.4	99.4 99.5	99.4	99.4	99.4		
≥ 700 ≥ 600		87.1 87.1	91.2				99.0	99.5	99.5 99.5	99.5 99.5	99.5	99.5	99.5	99.5 99.5	99.5 99.5	99
≥ 500 ≥ 400		87.3		95.4 95.4	97.6 97.6	98.6	99.1	99.6	99.6	99.6	99.6	99.6	99.6	39.6	99.6	99
≥ 300 ≥ 200	•	87.3 87.3		95.4 95.4	97.6	98.5	99.3	100.0	100.0	100.0	100.0 100.0	100.0	100.0	100.0	100.0	100
≥ 100 ≥ 0		87.3	91.3	95.4	97.0	98.6	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.C	100,0	100

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CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERHANY/FRANKFURT 67-76

0000-0200

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING		· · · · · · · · · · · · · · · · · · ·					VIS	IBILITY (ST	ATUTE MIL	£S ¹						
(FEE1,	≥10	≥6	≥5	≥ 4	≥3	≥2'7	≥ 2	≥ויז	≥114	≥1	≥ 1,4	≥>.	≥ 2	≥5 16	≥ .	≥0
NO CEILING ≥ 20000		45.6 49.0	49.1 52.5						56.3 62.5	58.6	58.6	58.4	58.6	58.6	58.0	28.
≥ 18000 ≥ 16000		49.1 49.1	22.0	57.6 57.6	00.0	01.1	62.1	62.6	62.6	62.8	62.8	62 . R	62.8	62.8	52.8	62.
≥ 14000 ≥ 12000		50.1 53.1	53.6	58.6		62.1	63.1	63.5		63.8	63.8	63.8	63.8	63.8	63.8	03.
≥ 10000 ≥ 9000	······································	56.7 58.1	62.0	68.8 70.1	72.7	73.4	74.5	75 • 2	67.8 75.2	75.5	75.5	75.5	75.5	72.5	75.5	75.
≥ 8000 ≥ 7000		58.9 61.6	64.3		75.7	76.7	77.9	78.9		79.1	79.1	79.1	79.1	79.1	79.1	79.
≥ 6000 ≥ 5000		63.7	69.4	77.3	81.7	82.9	84.1	85.1		83.3	85.3	85.7	82.5	85.3	85.3	35.
≥ 4500 ≥ 4000		66.6	72.3	80.7		86.5	87.7	88.7	88.7	87.2	88.9	88.9	88.9	88.9	88.9	38.
≥ 3500 ≥ 3000		68.7 68.9	75.2	83.6	88.3	89.7	90.9	91.9	91.9	92.11	92.1	92.1	90.8	92.1	92.1	92.
≥ 2500 ≥ 2000		69.6	75.7 76.4	84,2		91.0	72.5	93.3	92.7	73.0	93.6	93.6	93.6	93.6	93.6	93.
≥ 1800 ≥ 1500		69.9 70.5	76.7	85.3	90.4	92.2	93.6	94.7		94.9	94.9	94.9	94.9	94.9	94.7	94
≥ 1200 ≥ 1000		71.0	77.8	86.9 87.0	92.1	94.3	95.7	97.0		97.3	97.3	97.3	97.3		96.7	97.
≥ 900 ≥ 800		71.0	77.8	87.0	92.3	94.8	96.2	97.6	97.7 97.7	97.9	97.9	97.9	97.9	97.9	97.9	97.
≥ 700 ≥ 600		71.0	77.8	87.0 87.2	92.3	95.0	96.4	98.1	98.2	98.4	98.4	98.4	98.4	78.1	98.4	98.
≥ 500 ≥ 400		71.0	77.8	87.2	92.6	95,3	95.7	98.4	98.5	90.8	98.8	98.8	98.8	98.8	98.8	98.
≥ 300 ≥ 200		71.q	77.8	87.2	92.6	95.6	97.2	98.5	99:1	99.4		99.5		99.5	98.9	98.
≥ 100 ≥ 0		71.0 71.0	77.¥	87.2	92.6	95.7	9 3	99.1	99.3	29.5	99.6	99.6	99.8	99.8 99.8 00.01	59.8	99.

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

C

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY (STA	ATUTE MILI	ES:						
(FEET)	≥10	≥6	≥5	≥4	≥3	≥2%	≥ 2	≥ו'ס	≥114	≥1	ية ≤	≥'₃	≥ 7	≥5 16	≥4	≥0
NO CEILING ≥ 20000		30.0		38.7 43.4	45.2 50.9		48.5 54.8	51.1 57.5	51.8 58.2	51.8 58.2	51.8 58.2	51.9 58.3	51.9 58.3	51.9 58.3		32.3 6.6د
≥ 18000 ≥ 16000		33.0		43.4	50.9 50.9	52.6	54.8	57.5	58.2 58.2	58.2 58.2	58.2 58.2	58.3 58.3	58.3 58.3	58.3 58.3	58.4 58.4	58.6 28.6
≥ 14000 ≥ 12000		33.4 35.6	37.6 40.1	43.9 47.0	51.5 55.0		55.5 59.2	58.2 52.4	58.9 63.2	58.9 63.2	56.9 63.2	59.0	59.0 63.5	59.0	59.1 63.6	59.3
≥ 10000 ≥ 9000		38.9 41.0		51.8 54.4	60.9	63.3	65.9	69.3 72.5	70.3	70.3 73.6	70.3 73.6	70.4	70.5 73.8	70.5 73.8	70.6	70.9 74.1
≥ 8000 ≥ 7000		42.1	47.8	55.9 58.3	65.1 67.7		70.4 73.1	74.3 77.0	75.3 78.1	75.3 78.1	75.3 78.1	75.4 78.3	75.6 78.4	75.6 78.4	75.7 78.5	75.9 78.7
≥ 6000 ≥ 5000		45.5	51.7 53.7	60.4	70.3 72.9	73.1 75.7	75.8 78.4	79.9 82.6	81.1	81.2 84.0		81.3 84.1	81.4	81.4	81.5	31.8 34.5
≥ 4500 ≥ 4000		47.8 49.1	55.7	63.7 65.0	74.0		79.6 81.2	83.8 85.7	85.0	85.2 87.1	85.2 87.1	85.3 87.2	85.4 87.3	85.4 87.3	85.5 87.4	85.8 87.7
≥ 3500 ≥ 3000		49.4 50.1	55.9 56.6	66.3	76.3 77.3	79.2 80.4	81.9 83.2	86.5 87.8	87.7 89.0	87.9	89.2	68.1 89.3	88.1 89.4	88.1 89.4	98.2 99.5	38.5
≥ 2500 ≥ 2000		51.1 51.9		68.2 69.2	80.6			90.5 91.8	91.7 92.9	91.9 93.2	93.2	92.0 93.3	92.1 93.4	92.1 93.4	92.2 93.5	92.5 93.8
≥ 1800 ≥ 1500		52.2 52.6		69.6 70.5	81.2	86.5	87.4 89.3	92 • 1 94 • 2	93.3 95.5	93.5 95.8	93.5 95.8	93.7 95.9	93.8	93.8 96.0		94.1 56.4
≥ 1200 ≥ 1000		52.6 52.6	60.0	70.9 71.0	83.4		89.9	94.9 95.4	96.2 96.7	96.5 96.9	96.5 96.9	96.4 97.1	96.7	96.7 97.2	96.8 97.3	97.1 97.5
≥ 900 ≥ 800		52.6 52.6	60.0	71.0 71.0	83.5 83.7		89.9 90.0	95.4 95.5	96.7 96.8	96.9 97.1	96.9 97.1	97.1 97.2	97.2 97.3	97.2 97.3	97.3 97.4	97.5 97.6
≥ 700 ≥ 600		52.6 52.6	60.0	71.1 71.1	83.8 83.8	87.3	90.1 90.1	95.7 95.8	96.9 97.1	97.2	97.2 97.3	97.3 97.4	97.4 97.5	97.4 97.5	97.5 97.6	
≥ 500 ≥ 400		52.6	60.0	71.1	84.0				97.4 97.8	97.6 98.0	97.6 98.0	97.8 98.1	97.9	97.9 98.2	98.0 98.4	98.2
≥ 300 ≥ 200		52.6 52.6	60.0	71.1 71.1	84.1 84.1	87.8	91.0 91.0	96.7 96.7	98.1 96.1	98.5 98.6	98.5 98.6	98.6 98.7	98.7 98.8	98.7 99.1	98.9	
≥ 100 ≥ 0		52.6 52.6		71.1 71.1	84.1	87.8	91.0 91.0	96.7	98.1 98.1	98.6 98.6	98.6 98.6	98.7 98.7	98.8 98.8	99.1 99.1	99.3	99.6 100.0

TOTAL NUMBER OF OBSERVATIONS_

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0600-0800

CERING							ViSi	BILITY (STA	itute mili	E\$1						
iFEET:	≥10	≥6	≥5	≥4	≥3	≥2½	≥ 2	≥11/2	≥1¼	≥1	ه د ≤	≥′₃	≥ '5	£ 5 16	≥1.	≥0
NO CEILING ≥ 20000		25.6 31.8	28.3 35.4	33.1	40.4 50.2		42.9	44.3 55.2	44.4 55.3	44.5 55.6	44.5 55.6	44.5 55.6			44,7	
≥ 18000 ≥ 16000		31.9	35.5 35.5	41.2	50.3	52.C	53.7 53.7	55.3 55.3	55.5 55.5		55.7	55.7 55.7	55.7 55.7	55.8 55.8	55.8 55.8	
≥ 14000 ≥ 12000		31.9		41.9	51.3		54.9 59.4	56.6	56.7		57.0	57.0 62.4	57.0	57.1 62.8	57,1 52.8	57.1
≥ 10000 ≥ 9000		37.9 38.7	42.9	49.5 50.8	60.8		65.3	68.6 70.3	68.8	- 4		69.0 71.0	_	09.1 71.1	59,1 71,1	69.3
≥ 8000 ≥ 7000		39.0 40.4	44.2 45.9	51.2 53.6			67.9 70.6	71.1	71.6 74.5	71.8	71.8	71.8	71.8	71.9	71.9	72.0 74.9
≥ 6000 ≥ 5000		41.4	47.1 48.7	54.8 56.6	55.8 69.3	- 1	72.4 75.1	75.9 78.8	76.3 79.4	76.6 79.8	76.6 79.8	76.6 79.8	76.6	_	76.7 79.9	76.8 30.0
≥ 4500 ≥ 4000		43.2			70.1 72.3		75.9 78.5	79.7 82.4	80.3 83.1		80.7 83.5	80.7 83.3	4	80.9 83.6		8.86
≥ 3500 ≥ 3000		45.1 45.8		60.3 61,8		79.1	79.7	83.8	84.5 87.2	87.7		84.9 87.7	84.9	87.8	85.0 87.8	
≥ 2500 ≥ 2000		46.9 48.0	54.6	63.5	79.6	83.2	84.8	89.3 91.1	90.0 91.9	92.3		90.5 92.3	92.3	92.5	90,6	92.6
≥ 1800 ≥ 1500		48.3	55.3	65.5	80.6	84.3	87.0 87.7	92.2	92.3 93.3	93.9	93.9	92.8 93.9		94.0	92.9 94.0	94.1
≥ 1200 ≥ 1000		49.3	56.0	66.5	81.4 81.6	85.3	88.6 89.0	93.7	94.4 95.0	95.6		95.1 95.6		95.1 95.7	95.1 95.7	
≥ 900 ≥ 800		49.4	56.0	66.5	81.6	85.4	89.0 89.1	93.9 94.0	95.1 95.2	95.7 95.9	95.7 95.9	95.7 95.9		95.8	95.8 96.1	95.9
≥ 700 ≥ 600		49.4	56.0	66.6		85.5 85.5	89.2 89.2	94.2	95.5 95.6	96.2 96.4	96.2	96.2	96.2 96.4	96.5	96.3	التستسلم
≥ 500 ≥ 400		49.4	56.0	66.7	82.0	85.8	89.4	94.4	95.9		96.9	96.9		97.0 97.7	97.0 97.7	97.8
≥ 300 ≥ 200		49.4	56.0	66.8	82.1	86.0		95.1 95.2	96.9	98.3	98.3	98.3	98.1	99.0		99.2
≥ 100 ≥ 0		49,4		66.8	82.1		89.9		97.0 97.0	98.3 98.3		98.5	98.8 98.8			99.2 100.0

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

0900-1100

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY (ST	ATUTE MILE	(S)						
(FEET)	≥10	≥6	≥5	≥4	≥3	≥2⅓	≥2	≥1%	≥1'4	≥;	≥ ¼	≥',	≥ ′n	≥ 5 16	≥:.	≥0
NO CEILING ≥ 20000		38.9 46.2		45.1 54.1	47.8 57.1	48.1	48.4 58.1	48.5 58.4	48.5	48.5 58.4		- 1	48.5 58.4		48.5 58.4	
≥ 18000 ≥ 16000		46.5		54.3 54.3	57.3 57.3		58.4 58.4		58.6 58.6	58.6	58.6	58.4 58.4	58.6 58.6	58.6	,	
≥ 14000 ≥ 12000		47.3 50.3	50.6 54.0	55.4 59.3	58.4 62.6		59.4 63.8				59.6	59.6	59.6			-
≥ 10000 ≥ 9000		52.9 54.2		62.0 63.8	66.5		68.0		68.6	68.6 70.8	68.6	68.A	68.6		- 1	68.6 70.8
≥ 8000 ≥ 7000		54.6 55.4		64.3 65.1		70.4	70.8	71.5	71.5 72.3	71.5	71.5	71.5	71.5		71.5 72.3	
≥ 6000 ≥ 5000		57.6 60.5		67.6 71.2	72.4 76.1		74.3	74.9		74.9 78.8		74.9 78.8	74.9 78.8		74.9 78.8	74.9 78.8
≥ 4500 ≥ 4000		61.4 63.4		72.1 74.9	77.0 80.1		76.8	79.7	79.7 83.0	79.7 83.0	1		79.7 83.0	79.7 83.0	79,7	
≥ 3500 ≥ 3000		64.4		76.2 78.6				84.9		84.9	84.9	84.9	84.9			
≥ 2500 ≥ 2000		68.0 70.0		81.4 83.8			89.7 92.6	91.1		91.1	91.1		91.1		91.1 94.2	91.1 94.2
≥ 1800 ≥ 1500		70.7 71.2	76.1 76.8	84.7 85.8		92.7 93.9	93.5		95.2		95.2	95.7	95.2	95.2 96.9	95.2 96.9	
≥ 1200 ≥ 1000		71.3 71.3	76.9	85.9 86.0			95.0	97.3	97.4	97.4	97.4	97.4 98.1	97.4 98.1	97.4 98.1	97.4	97.4 38.1
≥ 900 ≥ 800		71.3 71.3	76.9 76.9	86.0 86.0	92.4				98.2 98.6	98.2	98.2		98.2	98.2	98.2 98.7	
≥ 700 ≥ 600		71.3 71.3	76.9 76.9	86.0 86.0	92.6	94.6			99.0		99.1		99.1 99.1	99.1 99.1	99.1 99.1	99.1 99.1
≥ 500 ≥ 400		71.3 71.3	76.9 76.9	86.0 86.0			95.5	98.5	99.1 99.4	99.3 99.7			99.3	99.3		
≥ 300 ≥ 200		71.3 71.3	76.9 76.9	86.0 86.0	92.6		95.7	98.7		99.9 99.9		99.9	99.9			99.9
≥ 100 ≥ 0		71.3 71.3	76.9	86.0	92.6	94.6	95.7	93.7		99.9		99.9			99.9 100.0	

TOTAL NUMBER OF OBSERVATIONS.

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE . (FROM HOURLY OBSERVATIONS)

CEILING							VIS	IBILITY (STA	ATUTE MIL	ES						
I FEET)	≥10	≥6	≥5	≥4	≥3	≥2'2	≥2	≥117	≥114	≩ા	≥ i₄	≥,•	2%	≥ 5 16	⋝,⁴	≥0
NO CEILING ≥ 20000		43.8 56.6	58.2	59.5	60.8	60.9	47.7 60.9	47.7 60.9	47.7 60.9	60.9	47.7 60.9		47.7 60.9	47.7 00.9	47,7 60.9	
≥ 18000 ≥ 16000		56.7	58.3 58.3	59.6	60.9	61.1	51.1 61.1	61.1 61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1 61.1	01.1
≥ 14000 ≥ 12000		58.0 62.0	64.5	61.3		62.7 68.0	62.7		62.7 68.0		62.7 68.0	62.7 68.0	62.7 68.0	52.7 68.0	62.1 63.0	
≥ 10000		65.9	69.8	70.9 71.7	73.7	73.0	73.0 74.0	74.3	73.3	74.3	73.3 74.3	73.3	74.3	73.3	73.3 74.3	73.3
≥ 8000 ≥ 7000		68.5	70.2	72.2 73.8		74.7	74.7		75.0 76.7	76.7	75.0 76.7	75.0	76.7	75.0 76.7	75.0 76.7	76.7
≥ 6000 ≥ 5000		72.3	78.8	77.6 81.3	83.7	80.2	80.2 83.9	84.3	80.6	84.3	84.3	80.5	84.3	89.6 84.3	80.6	4.3
≥ 4500 ≥ 4000		77.9	83.4	83.8 86.0	88.4	86.4		89.2	86.7	86.7	86.7	86.7 89.2	86.7	86.7	86.7	19.2
≥ 3500 ≥ 3000		82.1 84.5		91.1	93.7	91.5		94.3	91.8 94.8	94.8	94.8	91.8	91.8		91.8	94.8
≥ 2500 ≥ 2000		86.0	91.1	92.9	96.7	96.1		98.1	96.7 98.1	96.7 98.1	96.7 98.1	96.7 98.1	96.7 98.1	96.7	96.7 98.1	
≥ 1800 ≥ 1500		87.3	91.8	94.4	97.6	98.0			98 • 6 99 • 2	99.2	99.2	99.2	98.6	98.6 99.2 99.3	98.6 99.2	99.2
≥ 1200 ≥ 1000		87.5	92.1	95.1	97.9	98.6 98.8		99.6	99.3 99.6	90.6	99.6	99.3	99.6	99.6	99.6 99.6	99.6
≥ 900 ≥ 800		87.6	92.1	95.1 95.1	97.9	98.8	99.2		99.6	99.6	99.6	99.6	99.6			99.6
≥ 700 ≥ 600	l 	87.6	92.1	95.1 95.1	97.9	98.8	99.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 500 ≥ 400		87.6 87.6	92.1	95.1 95.1	97.9 97.9 98.0	98.8 98.8 98.9	99.2	99.8		99.8		99.6 99.8	99.8	99.8	99.8	99.8
≥ 300 ≥ 200		87.6	92.1	95,1	98.0	98.9	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	2. T
≥ 100		1 22 -	92.1	1 7 7 7		98.9										100.0

TOTAL NUMBER OF OBSERVATIONS.

2

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CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

CEILING							VIS	BILITY (ST	ATUTE MILI	ES,						
(FEET)	≥10	≥6	≥5	≥4	≥3	≥21⁄2	≥2	≥1%	≥14	≥1	≥ 1,4	≥'•	≥ '7	≥ 5 16	≥1.	≥0
NO CEILING ≥ 20000		45.8 58.9						49.6	49.6 62.4	49.6		49.0		49.6 62.4		
≥ 18000 ≥ 16000		59.2 59.3	60.2	61.7	62.5	62.6	62.5	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	
≥ 14000 ≥ 12000		61.4	62.7	64.2	65.0	65.1	65.1	65.1	62.7	62.7	65.1	62.7	62.7	65.1	52.7	55.1
≥ 10000		71.3		69.8 75.0	76.0		76.1	70.7 76.1	70.7 76.1	70.7 76.1	70.7	70.7	70.7	70.7	76.7 76.1	70.7
≥ 9000		72.7					78.1 78.9	78.1	78.1 78.9	78.1 78.9	78.1 78.9	78.9	78.1 78.9	78.1	78.1 78.9	78.1 78.9
≥ 7000 ≥ 6000		74.5			80.4	80.5	80.5	80.5	80.5	80.5 83.8	80.5	80.5 83.8	80.5	83.8		
≥ 5000		81.7	84.4	87.3	88.5	8.83	8.8	88.8	88.8	88.8	88.8	88.7	88.8	88.8	88.8	68.8
≥ 4500 ≥ 4000		83.8	89.6		93.9	94.3	91.3 94.5	91.3 94.5	94.5	91.3 94.5	94.5	91.3	94.5	91.3		94.5
≥ 35%0 ≥ 3000		87.7 88.8		93.8		95.5 96.7		95•7 97•0	95.7 97.0	95.7 97.0		95.7 97.0	95.7 97.0	95.7 97.0	97.0	95.7 97.0
≥ 2500 ≥ 2000		89.4		95.6		97.5 98.0	97.9 98.3	98.0 98.6	98.0 98.6	98.0 98.6		98.0 98.6	98.0 98.6	98.0 98.6	98.0 98.6	
≥ 1800 ≥ 1500		89.6	1	96.0	97.5 98.0	98.0	98.3	98.5	98.6	98.6	98.6		98.6	98.6	98.6	98.6
≥ 1200 ≥ 1000		90.0	93.5		98.1	98.7 98.7	99.2	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99,5	99.5
≥ 900 ≥ 800		90.0	93.5	96.5	98.1	98.7	99.2	99.4	99.5	99.6	99.6		99.6	99.6	99.6	99.6
≥ 700 ≥ 600	• ,	90.0	93.5	96.5	98.2	98.8	99.3	99.5	99.6	99.8	99.8	99.8	99.8	99.8	79.8	99.8
≥ 500 ≥ 400	<u></u>	90.0		96.5	98.3	98.9	99.4	99.6	99.8	99.9	99.9		99.9	99.9		99.9
≥ 300		90.0		96.5	98.3	99.0	99.5	99.8	99.9	100.0	100.0	100.0	100.0	.00.0	100.0	100.0
≥ 200		90.0		96.5	98.3	99.0				100.0 100.0						
≥ 0		90.0	93.5	96.5	98.3					100.0	100.0	100.7	100.0	100.0	100.0	100.0

≥ 1200 ≥ 1000

≥ 900 ≥ 800

700

500 ≥

300

2

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C

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

1800-2000

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

VISIBILITY ISTATUTE MILES CEILING ≥ 5 ≥ 5 ≥112 ≥5-16 42.6 43.8 45.2 54.6 56.5 38.4 NO CEILING ≥ 20000 59.3 ≥ 16000 ≥ 16000 60.5 60.5 ≥ 14000 ≥ 12000 72.8 72.9 73.3 7' 74.3 74.8 73.8 73.8 73.8 73.8 73.8 73.8 73.8 75.2 75.2 75.2 75.2 75.2 75.2 75.2 ≥ 10000 ≥ 9000 73.8 73.8 74.3 ≥ 8000 ≥ 7000 70.0 72.8 ≥ 6000 ≥ 5000 ≥ 4500 ≥ 4000 ≥ 3500 ≥ 3000 ≥ 2500 ≥ 2000 ≥ 1800 ≥ 1500

89.4 C3.8 96.7 97.1 97.8 98.8 99.2 99.2 99.2 99.2 89.6 94.0 96.9 97.3 98.0 99.1 99.4 99.4 99.4 99.4 99.4

98.3

TOTAL NUMBER OF OBSERVATIONS

99.8 99.8

99.4

99.8

USAF EJAC TOTAL 0-14-5 (OL A), MEVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

84.9

C

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING I							ViS	BILITY (ST	ATUTE MILI	ES;						
(FEET)	≥10	≥6	≥5	≥ 4	≥3	≥21⁄2	≥2	≥11/1	≥1%	≥1	≥ 14	≥ %	≩ ″	≥ 5 16	≥ '4	≥0
NO CEILING ≥ 20000		47.5 53.6			53.8		54.2 61.1	54.3	54.4	54.5 61.5		54.5 61.5	54.5 61.5			
≥ 18000 ≥ 16000		53.7 53.7	1	59.0	60.5 60.5	-	61.2		61.5			61.6				01.5 01.6
≥ 14000 ≥ 12000		55.8 59.7	62.7	61.1 65.9	62.6 67.6	67.7			68.5	68.6	58.6	68.4			68.6	3.7 58.6
≥ 100^0 ≥ 9000		63.9	69.4	71.7 73.6	74.3	76.6					77.0	77.6			77,6	77.6
≥ 8000 ≥ 7000		70.2	74.6	75.3	78.3 82.1	82.5	83.1	79•3 83•2	83.3	83.4	83.4	83.4	83.4	83.4	83.4	33.4
≥ 6000 ≥ 5000 ≥ 4500		72.4 74.0			85.3	88.2	86.3			89.2	89.2	89.2			19.2	
≥ 4000 ≥ 3500		76.1 76.4	81.9	85.7 87.3	89.3 91.1 91.3	91.7	9() . 2 92 . 2 92 . 5	92.4	92.5		92.6	92.6	90.6 92.6 92.8	92.6	92.6	90.6 92.6
≥ 3000 ≥ 2500		77.8	83.5		93.2	93.8	I	92.6 94.5 96.0		94.7	94.7	94.7	94.7	94.7	94.7)4.7 96.2
≥ 2000		79.6	85.7	91.3		96.4			97.5	97.6	97.6	97.4	97.6	97.6	97.6	
≥ 1500		79.8	85.9		95.8	95.7	97.5			98.1	98.1	98.1	98.1	98.1	98.1 98.4	98.1
≥ 1000 ≥ 900		79.9	86.1	92.1	96.5	97.4	98.4 98.4		98.9				99.1	99.1	99.1	99.1
≥ 800		79.9	86.3		96.8	97.6	98.7		99.3		79.4	99.4	99.4	99.4		99.5
≥ 600		79.9	,	92.4	96.9		98.9	99.4			99.8	99.8	99.8	99.8	99,8	99.8
≥ 400		79.9	86.4	92.4	97.2	95.2	99.1 29.2	99.6	99.8	100.0	100.0		100.0	100.0	100.0	
≥ 200		79.9	86.4	92.4	97.2	98.2		99.6	99.8	100.0 100.0	100.0	100.0	100.0	100.0	100,0	100.0
≥ 0		79.9	86.4	92.4	97.2	98.2	99.2	99.6	99.8	100.0	190.0	100.0	100.0	100.0	100.0	100.0

USAF ETAC 1014 0-14-5 (QL A) MENOUS COTTONS OF THIS FOR

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

									 -							
CEILING							VIS	IBILITY (STA	ATUTE MILI	ESı						
(FEET)	≥10	≥6	≥5	≥4	≥3	≥21⁄2	≥2	≥1'≎	≥1'₄	≥1	≥ 14	≥',	≥ ?	≥5 16	≥ .	≥0
NO CEILING ≥ 20000		28.7	32.5	38.1 43.1		45.6 51.5		51.8 58.3	52.5 50.9		52.8 59.2	53.1 59.5	53.2 59.6	53.3 59.7		
≥ 18000 ≥ 16000		32.3 32.3	36.6	43.1	49.4	51.5	55.3	58.3	58.9 58.9	59.0	59.2 59.2	59.5		59.7	59,7	
≥ 14000 ≥ 12000		32.6	36.9	43.5	49.8	51.8	55,7	59.6	59.2	59.4	59.6			60.1	60.1	50
≥ 10000 ≥ 9000		37.1 38.8	42.1	50.0		59.6	63.5	66.6		67.5	67.7	68.7 70.8	68.1	68.2	68.2 71.1	
≥ 8000 ≥ 7000		40.5	45.9	54.3 56.9	62.2	64.7	69.0	72.2	72.8	73.0	73.3		73.6	75.8	73.8	
≥ 6000 ≥ 5000		45.9 48.0	51.6		68.7	71.3		78 - 8	79.4	79.7	79.9	80.2 84.0	80.3			90
≥ 4500 ≥ 4000		48.9	55.2		74.0	76.7	81.0	84.2		85.1	85.3	85.6	85.7	85.8		
≥ 3500 ≥ 3000		50.9 52.3	57.5 59.0	68.2	77.3	80.3		87.9		88.8 90.4		89.3	89.4 91.0	89.5 91.1	89.5 91.1	39 91
≥ 2500 ≥ 2000		54.2 55.3	61.1	72.2 73.5		84 · 4 85 · 7		92•2 93•6	92.9	_	93.3	93.6 95.0	93.7 95.1	93.8 95.2	93.8 95.2	94 95
≥ 1800 ≥ 1500		55.7 55.9	62.8	74.0 74.4	83.3 83.7	86.2	90.6 91.1	94•2 94•7	94.8			95.6 96.1	95.7 96.2	95.8 96.3		
≥ 1200 ≥ 1000		56.0 56.0	63.2	74.5	8 • 1 84 • 1	87.1 87.4	91.5 91.9		95.7 96.1	95.9 96.3		96.4	96.9	96.7 97.0	96.7 97.0	96 97
≥ 900 ≥ 800		56.0 56.0	63.2	74.5	34.1 84.1	87.4 87.4		95 • 4 95 • 4	96.1 96.1			96.8 96.8	96.9	97.0 97.0	97.0 97.0	97
≥ 700 ≥ 600		56.0 56.3	63.2	74.5	84.2 84.6	87.6 87.9	92.5		96.8	96.4		96.9 97.5	97.0 97.7	97.2 97.8	97.2 97.8	97 97
≥ 500 ≥ 400		56.4 56.5	63.5	75.1		88.4 88.5		96.9 97.3	97.5 97.9	98.2	98.4	98.4	98.8		98.9	99
≥ 300 ≥ 200		56.5 56.5		75.2 75.2		88.5 88.5	93.1	97.4 97.4	98.0	98.3	98.5	98.9		99.3	99.3	99
≥ 100 ≥ 0		56.5 56.5		75.2 75.2		88.5					98.6 98.6				•	

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CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFURT 07-70 35032

0300-0500

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

VISIRUITY ISTABLIE MILES CEILING FEET 48.4 48.7 49.3 NO CEILING ≥ 18000 ≥ 14000 ≥ 12000 ≥ 10000 ≥ 9000 ≥ 8000 ≥ 7000 32.5 36.5 43.7 54.6 57.6 61.2 68.2 70.3 34.3 38.4 46.1 58.2 61.5 65.2 72.8 74.9 35.6 39.7 47.9 60.1 63.6 67.5 75.1 77.2 37.2 41.7 50.0 62.7 66.5 70.5 78.1 80.2 71.1 71.5 71.6 71.7 72.2 72.6 75.7 76.1 76.2 76.3 76.8 77.2 78.0 78.4 78.5 78.6 79.1 79.5 ≥ 6000 ≥ 5000 ≥ 4500 ≥ 4000 81.0 81.4 81.5 81.6 82.1 82.5 37.8 42.3 50.6 63.5 67.4 71.4 79.0 81.0 81.9 82.2 82.4 82.5 83.0 83.3 39.6 44.1 52.7 65.8 69.9 73.9 81.6 83.7 84.5 84.9 85.0 85.1 85.6 86.0 ≥ 3500 ≥ 3000 40.8 45.4 54.5 67.8 71.9 75.8 83.7 85.7 86.6 87.0 27.1 87.2 87.7 88.0 88.6 42.0 46.6 55.7 69.1 73.2 77.2 85.3 87.4 88.3 88.6 88.8 38.9 89.4 89.7 90.3 ≥ 2500 ≥ 2000 40.8 45.4 54.5 67.8 71.9 75.8 83.7 85.7 86.6 87.0 C7.1 87.2 87.7 88.0 83.6 42.0 46.6 55.7 69.1 73.2 77.2 85.3 87.4 88.3 88.6 88.8 38.9 89.4 89.7 90.3 42.4 47.0 56.5 70.2 74.3 78.3 86.4 88.5 89.4 89.7 89.9 90.0 90.5 90.8 91.4 42.9 47.6 57.4 71.0 75.1 79.1 87.3 89.5 90.3 90.7 90.8 90.9 91.4 91.8 92.4 43.0 47.7 57.6 71.5 75.6 79.6 88.0 90.2 91.1 91.4 91.5 91.7 92.1 92.5 93.1 43.0 47.7 57.6 71.6 76.0 80.0 88.4 90.6 91.4 91.8 91.9 92.0 92.5 92.9 93.5 43.0 47.8 57.7 71.7 76.2 80.2 88.6 90.8 91.7 52.0 92.1 92.3 92.8 93.1 93.7 43.0 47.8 57.7 71.9 76.3 80.3 88.8 90.9 91.8 92.1 92.3 92.4 92.9 93.2 93.8 43.0 47.8 58.0 72.2 76.7 80.7 89.9 93.1 93.7 94.3 ≥ 1800 ≥ 1500 ≥ 1200 ≥ 1000 900 800 700 600 ۷. 43.0 47.8 58.0 72.3 76.9 81.0 89.9 92.1 93.1 93.5 93.6 93.7 94.2 94.6 43.0 47.8 58.0 72.5 77.1 81.3 90.1 92.4 93.4 93.7 93.8 94.0 94.4 94.8 43.0 47.8 58.0 72.6 77.4 81.9 90.8 93.4 94.3 94.7 94.8 94.9 95.4 95.0 43.0 47.8 58.0 72.6 77.4 81.9 90.8 93.4 94.3 94.7 94.8 94.9 95.4 95.0 43.0 47.8 58.0 72.6 77.4 81.9 90.8 93.7 94.8 95.2 95.3 95.4 95.9 96.3 500 400 ≥ ≥ 300 200 77.4 81.9 90.3 93.7 94.8 77.4 81.9 90.8 93.7 94.8 95.2 95.4 95.5 96.1 96.5 98.7 95.2 95.4 95.5 96.1 96.9100.0 100

TOTAL NUMBER OF OBSERVATIONS ...

USAF ETAC 100M 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE DISOLETE

CEILING VERSUS VISIBILITY

35032

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RHEIN-MAIN APT GERMANY/FRANKFURT

67-70

SEx

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

<u>0600-0800</u>

CEILING							VIS	BILITY ISTA	I'M BTUTA	ES.						
(FEET)	≥10	≥6	² ≥5	≥ 4	≥3	≥21⁄7	≥2	≥1 5	≥1'.	≥1	≥ 1.4	≥ 2,8	≥ %	≥5 16	≥ ′₄	≥0
NO CEILING ≥ 20000		15.8	18.7	23.1	29.5 34.6		34.4	38.5	40.3	41.0 49.1	41.4	41.4	41.5	41.6	41.7	42.2 50.6
≥ 16000 ≥ 16000		18.2	7.7.	27.5	34.7	36.5	40.6	46.1	46.2	49.2	49.6	49.8	49.9	50.0	50,1	50.7
≥ 14000 ≥ 12000		18.4	21.9	27.7	35.1	36.8	41.1	46.6	48.7	49.6	49.6 50.1	49.°	49.9 50.4	50.5	50.1	
≥ 10000		19.0 20.9		28.7 31.5	36.4	38.4 42.7	43.0 47.6	48.7 54.1	51.3 56.9	52.3 57.8	52.7 58.3	52.8 58.4	53.0 58.5	53.1	53.2 58.8	53.9 59.5
≥ 9000	-	21.7	25.7 26.8	34.0	41.9	44.3	49.4 52.3	56.0	59.0 62.1	60.0	60.4	63.6	60.7	60.8	64.0	
≥ 7000		23.8	23.1	35.3 37.3	45.4	48.5 51.3		63.9	67.2	65.2	65.6	65.8	65.9	66.0	69.3	36.8
≥ 5000 ≥ 4500		26.4	30.0	38.7	50.4	54.0	59 .5	66.9	70.4	71.8	72.3	72.4	72.5	72.7	72.9	73.6
≥ 4000		29.0	33.6	42.2	54.7	58.6		68.2 71.9	71.9 75.6	73.5 77.4	73.9 77.8	74 • 1 78 • n	74.2 78.1	74.4 78.3	74.5 78.4	75.2 79.1
≥ 3500 ≥ 3000		29.6 30.5	35.5	44.7	56.0 57.8		55.5 67.8	73.2	76.9 79.7	76.7 81.6	79.1	79.3 82.2	79.4 32.3	79.6 82.6	79.7 82.7	80.5 33.4
≥ 2500 ≥ 2000		31.8 32.8	37.1 38.2	46.4	60.0	64.0 55.9	70.0	78.3	82.3	84.2	84.7	84.8 26.8	85.0	85.2 87.2	85.3 87.3	88.0
≥ 1800 ≥ 1500		32.9	38.3	47.9	62.0	66.2	72.3	80.5	84.7	86.6	87.1 88.5	57.2 88.6	87.3	87.6	87.7	88.4
≥ 1200 ≥ 1000		33.6 33.6	39.0	48.9	63.4	67.9	74.2	82.9	87.2 87.4	89.1	89.6	89.7	89.8	90.0	90.2	90.9
≥ 900 ≥ 800		33.5	39.0 39.0	48.9 49.1	63.5	68.0	74.3	83.2	87.4	89.3	89.8	89.9	90.0	90.4	90.5	71.2
≥ 700 ≥ 600		33.6 33.6	39.0	49.1	63.6	68.1	74.6	83.4	87.7	89.6	90.3	10.2	90.6	90.6	90.8	91.8
≥ 500 ≥ 400		33.6	39.0	49.2	63.9	68.4	74.9	84.0	88.6	90.6	90.6	90.9	91.7	91.5	92.2	
≥ 300		33.6	39.0 39.0	49.3	63.9	68.4	75.0 75.0	84.5	88.9	91.0 91.7	91.6	91.0	92.2	99.7	94.2	
≥ 200		33.6	39.0	49.3	63.9	68.4	75.0	84.7	89.1	91.7	92.9	94.0	94.4	95.1	95.3	96.6
<u> ≥ 0 j</u>	l	33.6	39.0	49.3	63.9		75.0	84.7	89.1	91.7	92.9	94.0	94.4	95.3		100.0

TOTAL NUMBER OF OBSERVATIONS.

844

USAF ETAC" ALGA 0-14-5 (CL. A) PREVIOUS EDITIONS OF THIS FORM ARE DISCUS

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CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0900-1100

CEILING							VISI	BILITY ISTA	TUTE MILL	ES:						1
(FEET	≥10	≥6	≥5	≥ 4	≥3	≥2'≎	≥2	21%	≥1.4	≥1	≥ 34	≥>3	≥ າ	≥5 16	٤.	≥0
NO CEILING ≥ 20000		25.8 31.2		33.6 41.0		39.3 48.3	41.0 56.7	41.9 51.9	42.U 52.1		42.3 52.4	42.4	42.4 52.5	42.4 52.5	42.4 52.5	
≥ 18000		31.2	35.1 35.1	41.0		48.8 48.8	50.7 50.7	51.9 51.9	52.1	52.4 52.4	52.4 52.4	52.5 52.5	52.5 52.5	52.5 52.5	52.5 52.5	52.5 52.5
≥ 140°20 ≥ 12000		31.4		41.4 44.2	47.7 50.6	49.4 52.6	51.3 54.6	52.5 55.8	57.7 56.1	56.3	53.0 56.3	53.1 55.4	53.1 56.4	57.1 56.4	53.1 55.4	56.4
≥ 10000 ≥ 9000		35.0 36.4		47.5 49.5		54.8 59.5		69.4 63.2	60.6 63.5			61.0		63.8	61.0 63.8	
≥ 8000 ≥ 7000		37.6 38.6		50.8 52.1	58.8 60.4	62.9	63.5	64.9 67.1	65.0 67.4	67.7	65.4 67.9	65.5 68.1		65.5	65.5 68.0	0.80
≥ 6000 ≥ 5000		40.1	46.1 48.2			65.2 58.1	67.9 71.0	69.6	69.9 73.0		70.4 73.5	70.5	73.6	70.5	73.0	73.6
≥ 4500 ≥ 4000		42.9 45.2	*1.8	57.4 60.1	69.5	69.3 72.6	72.1 75.6	73.9 77.5	74.2 77.7	74.5 78.1		74.8				78.3
≥ 3500 ≥ 3000		46.7		61.7 64.4	71.8 75.2	75.0 78.6	78.1 81.7	80.0	80.2		84.4	80.9 84.5	80.5 84.5	84.	84,5	34.5
≥ 2500 ≥ 2000		51.2 52.9	58.2 60.0	67.0 68.9	78.3 80.4	84.0	85.0 87.5	87.3	87.7 90.2		91.1	88.6 71.2	38.6 91.2	88.6 91.2	80,6	
≥ 1300 ≥ 1500		53.1 53.5		69.5			87.7 88.7	90 • 1 91 • 2	90.6	92.4	92.5	91.5	92.6			
≥ 1200 ≥ 1000		53.6 53.7	60.8		51.5 82.3	85.7 86.4		73.0	92.6 93.7	94.5	94.8		94.9	94.9		94.9
≥ 900 ≥ 800		53.7	60.8	70.2	82.6		91.0		74.4	95.2	95.2 95.5	95.4 95.4	95.6	95.5	95.6	
≥ 700 ≥ 600		53.7 53.7	60.8	70.5	83.1	87.6	91.8	94.6	94.8	96.3	36.5		96.7	96.7	96.1	5 .7
≥ 500		53.7			83.3	87.9 88.0	92.4	95.5	96.4	97.5	77.9	98.0	98.0	98.0		98.0
≥ 200 ≥ 200		53.7 53.7	60.8	70.5	83.3	38.0			96.8	97.9		98.9	99.3	99.4	99.4	99.5
≥ 100 ≥ 0		53.7 53.7	60.8	70.5 70.5		88.0 88.0	92.4 92.4	95.6	96.8 96.8		98.6 98.6			99.4		100.0

OTAL NUMBER OF OBSERVATIONS 840

USAF ETAC KILDE 0-14-5 (OL A) MEMOUS EDITIONS OF THIS FORM ARE OBSCIET

CEILING VERSUS VISIBILITY

2

RHEIN-MAIN APT GERMANY/FRANKFURT 57-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

VISIBILITY STATUTE MILES CEILING ≥6 ≥ 5 16 ≥112 43.0 43.0 43.0 43.0 37.5 39.7 42.1 42.8 46.1 48.6 51.7 52.5 39.7 43.0 43.0 52.6 52.7 43.0 43.0 43.0 NO CEILING ≥ 20000 52.7 52.7 52.7 32.7 52.7 52.7 46.3 49.0 51.9 52.7 46.3 49.0 51.9 52.7 52.9 52.9 73.0 53.0 53.0 53.0 53.0 53.0 53.0 53.0 53.0 53.0 ≥ 18000 ≥ 14000 57.2 53.7 53.7 33.7 33.7 57.3 57.3 57.3 57.3 53.7 53.7 ≥ 12000 ≥ 10000 63.5 67.5 68.4 68.6 68.7 68.7 68.7 68.7 66.3 70.4 71.2 71.5 71.7 71.7 71.7 ≥ 8000 ≥ 7000 ≥ 6000 ≥ 5000 78.3 J2.6 82.6 82.6 62.6 ≥ 4500 ≥ 4000 32.0 82.6 82.6 82.6 82.6 82.6 76.1 80.7 81.6 81.0 85.7 86.6 87.6 87.8 87.8 87.6 87.8 87.9 87.8 67.8 87.8 89.3 89.3 29.3 89.3 89.3 89.3 89.3 69.3 92.2 7.2 92.2 92.2 92.2 92.2 92.2 92.2 77.3 82.3 87.1 88.1 88.4 79.3 84.7 89.9 90.9 91.3 ≥ 3500 ≥ 3000 87.1 88.1 88.4 89.3 ≥ 2500 € 2000 96.9 96.9 96.9 95.9 96.9 97.5 97.5 97.5 97.5 97.5 78.5 83.2 88.7 94.4 95.6 18.5 83.3 63.7 94.9 96.2 96.9 96.9 97.5 ≥ 1800 ≥ 1500 95.9 96.9 96.9 96.5 97.5 78.5 83.3 95.5 97.0 ≥ 1200 ≳ 1000 98.4 89.3 95.7 97.4 98.1 99.2 89.3 95.7 97.4 98.1 99.2 99.3 99.4 99.4 99.4 97.4 900 98.1 99.2 99.5 99.6 99.6 99.6 99.5 94.6 99.6 \$9.6 ≥ 700 ≥ 600 97.4 98.1 99.6 99.6 92.5 99.6 99.6 99.6 99.6 99.9 99.9 39.9 99.9 99.9 99.9 99. 500 98,1 99.5 89.3 95.7 77.4 99.5100.0100.0100.0100.0100.0100.0100.0 98. 2 ≥ 78 5 83.3 98,11 99.3 99.5100.0100.0100.0100.0100.0100.0100.0 99.5100.0100.0100.0100.0100.0100.0100.0 98.

TOTAL NUMBER OF ORSEFVATIONS.

CEILING VERSUS VISIBILITY

2

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1500-1700

CEILING							VIS	BILITY ST	ATUTE MILI	<u> </u>						
FEET	≥10	≥6	≥5	≥ 4	≥3	≥2'ז	≥2	≥1'≎	۵۱۰۶	≥ı	≥ 1.	د'	≥ 5	≥5 16	≥ .	≥0
NO CEILING ≥ 20000		40.2 50.6		42.6 54.0	44.1 55.9	44.1 55.0	44.1 55.9	44.1 56.1	44.1 56.1	44.1 56.1	44.ì 56.1	44.1 56.1	44.1 56.1	44.1 56.1	56.1	44.1 56.1
≥ 18000 ≥ 16000		50.6 50.6	51.9	54.0 54.0			55.9 55.9	56.1 56.1	56.1 56.1	56.1 56.1	56.1 56.1	56.1 56.1	50.1 50.1	56.1 56.1	56.1 56.1	56.1 56.1
≥ 14000 ≥ 12000		51.6 55.4	56.7	55.2 59.1	57.1 60.9	57.2 61.1	57.2 61.1	57.4 61.4	57.4 61.4		57.4 61.4	57.4 61.4		57.4 61.4	51.4	57.4 51.4
≥ 10000		59.9 63.3	64.3	67.6		70.2					70.9			70.9		
≥ 8000 ≥ 7000		65.2 67.4 72.5	69.1	69.5 72.0	71.9	72.1 74.6	72.2	75.3	72.8	75.3	72.8 75.3	72.0	72.8 75.3 80.7	72.8 75.3 80.7		
≥ 6000 ≥ 5000 ≥ 4500		76.6	78.6	77.3 81.3	84.4	79.9 84.8 87.6	80.1 85.1	80.7 85.9 88.7	80.7 86.0 83.8			80.7 86.0 88.0	86.0 88.5			0.6ئ
≥ 4000		83.3	83.5	86.8	92.6	90.0 93.2	96.2	91.1	91.3	91.3	91.3	91.3		91.3	91.3	1.3
≥ 3000		85.1	87.4		94.0	94.6			96.2	95.2	76.2	96.2	96.2 98.0	96.2		76.2
≥ 2000		86.4	38.9	93.2	96.0	96.6	97.1	98 • 1 98 • 1	98.4	98.4	98.4	98.4	98.4	58.4	98.4	
≥ 1500		86.5			96.4				98.9	98.9	98.9	98.9				
≥ 1000		86.5		93.5	96.5				99.4	99.4						
≥ 800		86.5		93.5	96.5		97.8		99.4	99.4	99.4			99.5	99,5	99.5
≥ 600		86.5	89.4	93.6	96.6	97.2		99.3	99.5	99.8	49.8	99.5 99.5	97.9	99.7	99.9	
≥ 400		86.6	89.4	93.6	90.0	97.3	97.9	99.3	97.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0
≥ 200 ≥ 100		86.6	89.4		90.0	97.3		99.3	99.8	99.9	49.9	100.0	100.0	100.0		100.0
≥ 0		86-6	85.4	93.6	96.6	57.3	9- 0	99.3	99.8	99.9	99.9	100 · J	160.0	100.0	<u> </u>	100.0

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFURT 57-76

CEILING							VIS	IBILITY STA	TUTE MIL	ES:				,		
(FEET)	≥10	≥6	≥5	24	≥3	≥2'2	≥2	≥10,	≥1'4	≥1	≥ 14	≥ 5,	≥ 2	≥ 5 16	≥.	≥0
NO CEILING ≥ 20000		36.6 46.8	38.5 49.1		44.1 56.2	44.8 57.1	45.4 57.7		45.3 57.8	45.3 57.8	45.3 57.8	45.7 57.9	42.3 57.8	45.3 57.8	45.3 57.8	
≥ 18∪ ≥ 16000		47.0	49.2	52.7 52.7	56.3 56.3	57.2 57.2	57.8 57.8	-	57.9 57.9	57.9 57.9	57.9 57.9	57.9 57.3	57.9 57.9	57.9 57.9	57.9 57.9	7.9 7.9
≥ 14000 ≥ 12000		47.6	49.8 52.1	53.3 56.0	57.0 59.9	57.9 60.9	58.5 61.5	-	58.7 61.6	58.7 61.6	58.7 61.0	58.7 61.6	58.7 61.6	38.7 61.6	58.7 61.6	
≥ 10060 ≥ 9000		54.0 56.5	56.8 59.4	61.2 63.9	65.1 68.0	66.2 69.1			67.0 69.9		67.0 69.9	69.9		67.0 69.9	67,0 69.9	9.9ر
≥ 8000 ≥ 7000	·	57.9 62.0	65.2	65.6 70.3	69.7 74.3	70.7 75.4	71.4 75.2		71.7 76.5	71.7 76.5	71.7 76.5	71.7	70.5	71.7 76.5	71.7 16.7	
≥ 6000 ≥ 5000		67.6	70.4		79.9 84.9	81.0 86.3	81.8 87.2	87.3	82.1 87.5		82.1 87.5	82.1 87.5		82.1 87.5	82,1 87.5	32.1
≥ 4500 ≥ 4000		73.7	76.9	65.2		92.1	93.1	93.3	90.1 93.4	90.1	90.1	90.1 93.5		90.1	90.1	90.1
≥ 3500 ≥ 3000		76.5	80.4 82.0	87.8		93.3	94.3	96.1	94.6	94.7	94.7	94.7		94.7	94.7 90.3	
≥ 2500 > 2000		78.5				95.5 96.1	77.0	97.6	97.1 97.7	97.3 97.8	97.3 97.8	97.R	97.8	97.8	97.3 97.6	97.9
≥ 1800 ≥ 1500		79.1	83.2	89.2		96.5	97.6	98.3	98.0 98.4	≥8.6				98.6		١
≥ 1200 ≥ 1000		79.1 79.1	82.2	89.5	95.3	97.0	98.1	98.8	98.9	98.6	99.0	99.7	99.0		99.0	99.0
≥ 900 ≥ 800		79.1	83.2	89.5	95.3 95.3	97.0 97.0	98.1	98.8 98.8	98.9	99.0	79.0	99.0	99.0	99.0	99.0	99.0
≥ 700 ≥ 600		79.2	83.3	89.6 89.6		97.3	98.4	99.2	99.2	99.4	99.4	99.4	99.4			99.4
≥ 500		79.2	83.3 83.3	89.7	95.7 95.7	97.4 97.4	98.6	99.4	99.5	99.8		99.3	99.8	99.8	99.8	99.8
≥ 300 ≥ 200		79.2	83.3	89.7	95.7 95.7	97.4	98.6	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100 ≥ 0		79.2														100.0

CEILING VERSUS VISIBILITY

25032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

2100-2300

CEILING		•					VIS	BILITY (STA	ATUTE MILI	ESI						
(FEET)	≥10	≥6	≥5	≥4	≥3	≥2'2	≥ 2	≥1%	≥1'.	≥1	≥ 1,	≥ '•	≥ 7	≥ 5 16	≩ '•	≥0
NO CEILING ≥ 20000		36.4 40.4		45.0	51.0	52.6		54.2	54.2	54.3	54.3 59.9	54.2 59.0	54.5			
≥ 18000 ≥ 16000		40.6	44.4	49.9	56.2	57.5 57.8	58.8 59.0	59.9	60.0	59.9	50.1	60.1	50.2	60.2	60,2	00.2
≥ 14000		40.6	44.6	49.9 50.3	56.2 56.5	57.8 58.1	59.0 59.4	50.9	60.3	60.5	60.5	60.5	60.2	60.6	50.2 50.6	00.5
≥ 12000		42.2	46.3	52.6	59.1	60.7	61.9	67 . R	62.9	63.0	63.0	63.1	63.2	63.2	53.2	3 • 2
≥ 10000 ≥ 9000		45.8 47.5		57.5 59.6	64.1	66.0 68.7	67.3 70.0	68.2 70.9	68.3 71.0	68.4 71.1	68.4 71.1	68.4 71.1	68.5 71.2	68.5 71.2	68,5 71.2	58.5 71.2
≥ 8000 ≥ 7000		30.4	55.1	62.7	69.9	72.2	73.6	74.4	74.5	74.7	74.7	74.7	74.8	74.8	74.8	74.8
≥ 6000		57.6			78.0	74.8 80.3		87.5		77.2 82.7	77.2 92.7	77.2 82.7	77.4 82.9		77.4 82.9	77.4
0000 ≤		50.0					85.7	86.5	86.7	8.48					86.9	86.9
≥ 4500 ≥ 4000		63.2						87.9 90.7			88.1 90.9	88.1 90.9	88.4 91.1	91.1	88.2 91.1	98.2
≥ 3500 ≥ 3000		64.7	70.1 72.1		87.5 89.5	90.2	91.7		92.7	92.8		92.9			92.9 95.0	92.9
≥ 2500		66.8	72.2	81.3	90.0	92.9	94.4	95.3	95.5	95.6	95.6	95.6	95.7	95.7	95,7	95.7
≥ 2000		68.2			91.4 91.7	94.4	95.8	96.8	97.1	97.2 97.4	97.4	97.4			97.6	97.6
≥ 1500		69.0	74.4	83.5	92.3	95.2	96.7	97.7	97.9	98.0	98.0	98.1	98.2	98.2	98.2	98.2
≥ 1200 ≥ 1000		69.5		84.0 84.0	92.8 92.8	95.7 95.7	97.2 97.2	98 • 2 98 • 2	98•4 98•4	98.8 98.8	98.8 98.8	98.8 98.8	98.9 98.9	98.9 98.9	98.9 98.9	78.9 78.9
≥ 900 ≥ 800		69.5		84.0	92.8	95.7	97.2	98.2	98.4	98.8 98.9	98.8	98.9	98.9	98.9	98.9 99.0	98.9
≥ 700		69.5		84.0	92.8	95.7	97.2	98.3	98.5	98.9	98.9	98.9	99.0	99.0	99.0	99.0
≥ 600		69.5	74.9	84.0	93.0 93.1	96.0	97.6	98.5	98.8	99.4	99.1	99.1	99.3		99.3	99.3
≥ 400		59,5		84.0	93.1	96.1	97.6	98.9	99.1	99.5	99.5	99.5				
.≥ 300 ≥ 200		69.5		84.0 84.0	93.1 93.1	96.1 96.1	97.6 97.6			99.5 99.5		99.5 97.6				99.8
≥ 100 ≥ 0		69.5			"	96.3	97.8	99.1	99.4		99.9	99.9	100.0		100.0	_

USAF ETAC JULIA 0-14-5 (OL A) MEYIOUS EDITIONS OF

CEILING VERSUS VISIBILITY

RHEIN-MAIR APT GERMANY/FRANKFURT 57-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0000-0200 HOURS 131

CEILING							VIS	IBILITY IST	ATUTE MIL	ESI	1					
IFEET:	≥10	≥6	≥5	≥ 4	≥3	≥27	≥ 2	≥1%	≥1%	≥ı	≥ 14	>,•	≥ '>	≥ 5 16	≥ '₄	≥0
NO CEILING ≥ 20000		16.4	18.4		25.2 28.3			31.7	32.4 36.2	33.2 37.0	33.5	33.7	33.7 37.5	34.1 37.9	34.5 38.3	26.0 29.8
≥ 18000 ≥ 16000		17.9 17.9	20.0	23.0	28.3	30.4	31.9	35.5 35.5	36.2 36.2	37.0 37.0	37.3	37.5	37.5	37.9	38,3	39.8
≥ 14000 ≥ 12000		17.9 18.4	20.0	23.1	28.4	30.5		35.6	30.4	37.1	37.5	37.6	37.5	38.1	38.4	39.8
≥ 10000 ≥ 9000		20.9	23.1	26.6	32.3	34.4	30.1	36.5	37.2 40.4	38.1	38.4	38.6	38.0	42.2	39.4 42.6	40.9
≥ 8000 ≥ 7000		23.3	25.7 27.2	29.9	35.5	37.6	39.4	43.1	42.4	43.2	43.0	45.7	43.7	44.2	44.6	47.5
≥ 6000 ≥ 5000		27.8 30.6	30.5	34.8	41.1	43.6	45.5	49.3	50.2	51.3	47.5 51.7	47.6 51.8	47.6 51.8	52.3	48.5 52.6	54.1
≥ 4500 ≥ 4000		31.9	33.8	39.9	46.8	47.6	51.4	53.5 55.2	56.2	55.6 57.4	55.9 57.8	57.9	56.1 57.9	56.5 58.4	56.9 58.5	8.5 هر
≥ 3500 ≥ 3000		35.5	36.7	45.4		52.8 55.8	55.0 58.3	59.0 62.4	63.4	61.3	65.2	61 · R	61.8	62.3	62.7	57.8
≥ 2500 ≥ 2000		38.8 40.0	43.8	50.7	59.4	59.7 62.8	62.3	66.6 70.1	71.1	72.6	69.4 72.9	69.5 73.1	69.5 73.1	70-0	70.4	74.0
≥ 1800 ≥ 1500		43.6	46.9	55.2	65.1	68.5	$\frac{70.1}{71.2}$	76.0	75,9	77.4	77.7	77.8 79.2	77.8	78.3	78.7	80.3
≥ 120C ≥ 1000		44.6	49.6	56.9 57.6	68.5	71.4	74.1	78.8 80.2	80.2	81.6	83.4	82.1	82.1	82.6	84.5	34.6
≥ 900		44.9	50.1	58.4 58.4	70.0	73.8	76.6	81.8	83.1	84.6	84.9	85.1	85.1	85.7	86.3	87.9
≥ 800		44.9	50.1	58.6 58.8	70.5	74.4	77.0	82.6	84.0	85.2	85.6	85.7	85.7	86.7	86.7	88.6
≥ 500		45.0	50.3	59.0 59.2	70.7	74.7	77.6	84.0	84.3	86.0	86.4	86.5	86.5	87.1	87.5	90.1
≥ 400 ≥ 300	- <u> </u>	45.0	50.3	59.4	71.5	75.4 75.6	78.7	84.2	85.6 87.0	87.3		87.A 89.6	87.8	88.4 90.2	88.7	90.3
≥ 200		45.0	50.3	59.4	71.7	75.8 75.8	79.2	85.4	87.3	89.4	89.8	90.1	90.1	90.8	91.3	92.3
≥ 0		45.0	50.3	59.4	71.7	75.8	_ * _I				90,2	90.6	90.5	91.3	91.8 92.41	95.2 .00.0

CEILING VERSUS VISIBILITY

C

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0300-0500

CEILING							VISI	BUITY ISTA	ATUTE MILE	Si						
(FEET)	≥10	≥6	≥5	≥4	≥3	≥2¹2	≥ 2	≥12	≥1′4	≥1	≥ i,	≥'•	د، ≥	≥5 16	≥ '₄	≥0
NO CEILING ≥ 20000		13.1 14.2	14.6 15.8	18.2	20.5	22.1	23,3 26.4	25.6 28.7	27.3 30.4	28.1 31.2	28.5 31.0	28.7 31.9	29.1 32.2	29.8 32.9	30,0 33.1	31.1 4.2
≥ 18000 ≥ 16000		14.2	15.8 15.8	19.9 19.9	23.2	24.8 24.8	26.4 26.4	28.7 28.7	30.4 30.4	31.2 31.2	31.6 31.6	31.° 31.8	32,2 32,2	32.9 32.9	33.1 33.1	34.2 34.2
≥ 14000 ≥ 12000		14.2	15.8 16.6	19.9 21.0	23.2 24.2	24.8 26.2	25.4 27.9	28.8 30.5	30.5 32.2	31.3 33.0	31.7 33.4	31.9 33.6	32.3 34.0	33.0 34.7	33.3 34.9	34.3 35.0
≥ 10000 ≥ 9000		16.7 16.9	18.7 19.0	23.3 23.5	26.7 26.9	28.7 28.9	30.7 31.0	33.4 33.6	35.1 35.3	35.9 36.1	36.3 36.5	36.5 35.7	36.9 37.1	37.6 37.8		38.9 9.1
≥ 8000 ≥ 7000		17.0 17.9	19.1 20.2		27.0	29.1 31.0	31.1 33.0	34.0 35.9	35.7 37.6	36.5 38.4	36.9 38.8	37.1 39.1	37.5 39.4	38.2 40.1	38,4 40.3	
≥ 6000 ≥ 5000		20.3	22.7		31.7 35.8	33.9 38.3	35.9 40. 5	38.9 43.6	40.6	41.4	41.8	46.R	42.4	43.1 47.9	43.3	44.4
≥ 4500 ≥ 4000		25.7 27.5	28.5 30.5	34.0 36.7	38.5 41.7	41.2	43.3 46.8	46.5	48.1 51.6	49.1 52.7	49.5 53.1	49.7 53.3	50.1 53.7	50.8 54.4	51.0 54.6	55.7
≥ 3500 ≥ 3000		29.7 33.1	32.7 36.1	39.5 43.3	44.7	47.7 52.2	50.3 54.9	53.8 58.3	55.5 60.0	56.5	56.9 61.5	57.1 61.7	57.5 62.2	58.2 62.9	58.5 63.1	04.3
≥ 2500 ≥ 2000		34.8 37.6	38.1 40.9	45.5 49.1	51.7 56.2	55.2 59.8	55.0 62.8	61.9	68.4	69.6	65.2 70.0	70.2	65.7	66.6 71.4	66,9 71.7	68.1 72.9
≥ 1800 ≥ 1500		38.7	42.0 43.5	50.8 53.1	58.1 61.2	61.7 65.3	64.7 66.3	68.7 72.3	70.3	71.5	71.9 75.6	72.1 75.9		73.3 77.1	73.6	78.5
≥ 1200 ≥ 1000		40.7 40.8	44.8	55.0 55.3	64.9	69.3	71.2 72.4	75•4 76•7	77.1 78.4	78.4 79.7	78.8 80.1	79.0 80.4	79.5 80.9	80.2		83.1
≥ 900 ≥ 800		40.8	44.9	55.3 55.6		69.6	72.7	76.7 77.1	78.4	79.7 80.2	80.1 80.6	80.4		81.6 82.1	81.9 82.4	
≥ 700 ≥ 600		40.9	45.0 45.0	55.8 55.8	65.7	70.5	73.2	77.6	79.2 79.8	80.7	81.0 81.6	81.4 82.0		82.6 83.2	83.4	84.6
≥ 500 ≥ 400		40.9	45.0 45.0		66.4	70.8	74.7	78.4	80.2 81.0	81.8 83.0	82.1 83.3	82.5 83.7		83.7	83,9	u6.3
≥ 300 ≥ 200		40.9	45.0 45.0		66.5	71.5	75.4	80.3 80.7	82.6	84.9	85.4 86.7	85.7 87.0	86.3	87.2 88.6		90.8
≥ 100 ≥ 0		40.9	, , ,		66.5	71.5 71.5	75.4 75.4	80•7 80•7	83.3 83.3							94.5 100.0

TOTAL NUMBER OF OBSERVATIONS

USAF ETAC MI 64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0600-0800

CEILING							VIS	BILITY ISTA	ATUTE MILI	ES)						
(FEET)	≥10	≥6	≥5	≥4	≥3	≥2%	≥2	≥1'2	₃יו≲	≥1	≥ 1,4	≥,,*	≥ '>	≥ 5 16	≥'•	≥0
NO CEILING ≥ 20000		6.9	8.6		•	16.7	15.4	21.2	22.3	23.2	23.6 29.6	23.8 29.8	24.1	24.3 30.4	24.4	
≥ 18000 ≥ 16000		8.4	10.5			21.7	23.8	27.2	28.3		29.7	29.9	30.1 30.1	30.5 30.5	30.7	31. داد
≥ 14000 ≥ 12000		8.6 9.1		14.4 15.5	19.9	22.3	24.5		29.3		30.7 32.7	31.0	31.2	31.5	31.8	32. 4٠
≥ 10000 ≥ 9000		10.4			23.0	25.8 26.1	28.4 28.9	32.? 32.8	33.4			35.A	35.2 35.8	35.6 36.1	35.6 35.4	1
≥ 8000 ≥ 7000		10.9	13.7	18.1 19.3	24.2 25.7	27.0 28.5	29.9 31.6	33.8 35.8	35.0 37.2		36.4 38.0	36.6 38.0	39.0	39.4	37.4 39.0	40.
≥ 6000 ≥ 5000		13.3 15.4	16.7	21.9	28.8 32.7	32.0 36.0	35.3 39.4	39.5 43.5	40.9 44.9	45.9	46.4	42.5	42.7 46.8		43.4 47.5	48.
≥ 4500 ≥ 4000		16.7	20.5	26.4 30.3	34.6 39.5	38.0 42.9	41.7	46.4 51.9	47.8 53.3	48.8 54.3	49.3 54.8	49.5 55.0	49.7 55.2	50.2 55.7	50.4 55.9	
≥ 3500 ≥ 3000		21.3	25.7 27.3	32.6 34.3	44.4	46.1 48.1	50.2 52.1	55.6 57.5	57.0 59.0	60.3	58.5 60.9	58.7 61.1	58.9 61.3	59.4 61.8	59,6 62.0	52.
≥ 2500 ≥ 2000		24.7	29.2 31.3	36.5 39.0	49.9	50.6 53.7	55.0 58.3		62.0 65.0	67.4	64.1 68.1	68.4	€8.6	69.2	65,2 69.4	70.
≥ 1800 ≥ 1500		27.2 28.1	31.9	40.0	53.7	55.1 57.9		65.9 69.2	71.0		69.9 73.3	70.1 73.5	70.3 73.8	70.9	71.1	
≥ 1200 ≥ 1000		28.4	34.1	42.7	56.8	60.0	66.3		73.6	76.5		76.3	76.5 77.8		77.3 78.6	79.
≥ 900 ≥ 800		28.7	34.3	43.0	57.8	61.6	66.9		75.5 75.9		77.9 78.5	78.1	78.4	78.9 79.7	79,2 80.0	60.
≥ 700 ≥ 600		28.8	34.5	43.3	58.3	62.5	67.9 68.5		76.6	79.3	79.2 80.2	79.5 80.6		80.4 81.5	80.7	81
≥ 500 ≥ 400		28.8	34.5	43.3	58.5 58.5	63.3	68.9 69.0		78.3	81.4	81.1	81.5	83.2	82.4	82.6	34
≥ 300 ≥ 200		28.8	34.5	43.3	58.5	63.4	59.4 69.4	77.7	80.6	82.7		84.9	85.8		86.0 87.3	88.
≥ 100		28.8 28.8	-, •	1	58.5	63.4	69.4 69.4	77.7	80.7 80.7	_			86.0 86.0) '

USAF ETAC MIG 0-14-5 (CL A) PREVIOUS

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFUPT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY (STA	NUTE MILE	ES)						
(FEET)	≥10	≥6	≥5	≥4	≥3	≥2'2	≥ 2	≥1 %	≥1'.	≥1	≥ 1.4	≥3.	≥ %	≥ 5 16	≥ .	≥0
NO CEILING ≥ 20000		15.6 19.3	16.5		23.3	24.3 31.6			27.8 35.7	28.1 35.9	28.4 36.3	28.4	28.4 36.3	28.5 35.4	78.5 36.4	28.5 36.4
≥ 18000 ≥ 16000		19.3	21.0		30.3	31.6	33.6 33.6	34.9	35.7 35.7	35.9 35.9	36.3 36.3	36.2	36.3 36.3	36.4	36.4 36.4	36.4 35.4
≥ 14000 ≥ 12000		19.7	21.6		30.9 33.0	32.2 34.2	34.2	35.5	36.3 38.3	36.5 38.5	36.8 38.9	36 • ? 38 • 4	36.8 39.0	36.9 39.1	36.9 29.1	36.9 39.1
≥ 10000 ≥ 9000	-	22.5	24.3	,,	34.3 35.2	35.7 36.7	37.7 38.8	39.1 40.1	39.9 40.9	40 • 1 41 • 2	40.5 41.5	40.5	40.0 41.6	40.7	40.7	40.7 41.7
≥ 8000 ≥ 7000		23.8 25.4	25.7 27.3	29.1 30.7	35.9 37.7	37.5 39.6	39.7 42.1	41.2	42.0 44.5	42.2	42.5 45.0	42.5	42.6 45.3	42.8 45.4	42.8 45.4	42.8
≥ 6000 ≥ 5000		28.4 30.6	30.4 33.1	34.2 37.1	41.4	43.3 47.0	46.0 49.7	47.5 51.7	46.3 52.5	48.7 52.8	49.0 53.1	49.1 53.2	49.3 53.4	49.4 53.5	49.4 53.5	49.4 53.5
≥ /500 ≥ 4000		32.2 34.2	35.1 37.7	39.3 42.3	47.4 51.0	49.7 53.8	52.8 57.2	54.7 59.3	55.5 60.2	55.9 60.7	56.3 61.1	56.4 61.2	56.6 61.3	56.7 61.5	56.7 61.5	56.7 01.5
≥ 3500 ≥ 3000		35.9 37.9	39.8 42.2	44,6	53.5 56.9	56.6 60.2	60.1 63.7	62 • 3 66 • 5	63.2 67.4	63.6 67.8	64.1 68.3	64.2 68.5	64.3 68.9	69.0		09.0
≥ 2500 ≥ 2000		40.1	44.6 46.1	50.6 52.7	63.1	63.7 66.5	67.5 70.2		71.4	72.1 75.1	72.5 75.6	72.7 75.5		73.2 76.3	73.2 76.3	73.2
≥ 1800 ≥ 1500		42.9	47.8	54.5 56.7	65.5	68.9 71.6	72.6 75.4	75.8 78.7	76.9	77.5 80.4	78.0 80.8	78.2 81.1	78.6 81.4	78.7 81.5	78,7 81.5	78.7
≥ 1200 ≥ 1006		44.4	49.7	57.7 58.0	70.4	74.3 75.1	78.7 79.5	82 • 1 83 • 0	83.1 84.0	83.9	84.4	84.6 85.6	86.0	85.1 86.1	85.1 86.1	85 · 1 36 · 1
≥ 900 ≥ 800		44.4	49.8	58.0 58.2	71.2 71.5	75.1 75.5	79.5 79.8	83.4	84.2 34.5	84.9	85.4 85.7	85.7 86.2	86.1 86.5	86.2 86.7	86.2 86.7	36.2
≥ 700 ≥ 600		44.4	49.9	58.3 58.3	71.8	75.8 76.1	80.3 80.5	83.9	85.2 85.5	86.0	86.4 86.8	87.5		87.5 87.9	87,5 87.9	37.5 87.9
≥ 500 ≥ 400	· .	44.4	49.9	58.4 58.4	72.2	76.3	81.0 81.0	86.0	87.2 87.9	88.1	88.8 90.2	91.0	91.3	90.0	90.0	90.0
≥ 300 ≥ 200		44.4	49.9	58.4	72.2	76.3	81.1	86.5	88.6		91.8	93.5		95.1	94.1 95.3	95.6
≥ 100 ≥ 0		44.4	49.9	58.4 58.4	72.2	76.3	81.1 81.1	86 • 5 86 • 5	88.6	90.4 90.4	91.9 91.9	93.5 93.6		95.6 96.9		97.0 100.0

10TAL NUMBER OF OBSERVATIONS

USAF ETAC JUL64 0-14-5 (OL.A.) PREVIOUS EDITIONS OF THIS FOR

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFUPT 67-76

CEILING							VIS	BILITY (ST	ATUTE MILI	ES,						
iFEET:	≥10	≥6	≥5	≥4	≥3	≥2יז	≥2	≥1%	≥1,7	≥1	≥ 1.	در ≳	≥ 2	≥ 5 16	≥ .	≥0
NO CEILING ≥ 20000		23.6 29.7	25.3 31.7	27.7 35.1	29.8 37.8		31.5 34.7	33.1 41.8	33.1 41.8	33.3 42.1	33.4 42.2	33.4	33.4 42.2	33.4 42.2	33.4 42.2	33.4 42.2
≥ 18000 ≥ 16000		29.8 29.8	31.9	35.2 35.2	37.9 37.9		39.9	41.9	41.9	42.2 42.2	42.3	42.3	42.3	42.3	42.3	42.3
≥ 14000 ≥ 12000		30.0 32.8	35.1	35.5 38.6	36:1 41.4	39.0 42.3	40.1		42.2 45.4	42.4	42.5 45.8	42.5 45.0	42.5 45.8	42.5 45.8	42.5	42.5 +5.8
≥ 10000	<u> </u>	35.3 36.4	38.8	41.3	44.5						49.0 51.0			49.0 51.0	49.0 51.0	49.0 51.0
≥ 8000 ≥ 7000		36.7	39.2 40.7	43.0	46.3		49.0 50.5	51.4 53.0		51.7 53.2	51.8 53.3	51.8 53.3	51.8 53.3	51.8 53.3	51.8 53.3	51.8 23.3
≥ 6000 ≥ 5000		41.8	44.4		51.6 55.0	56.1	57.9	56.7 60.4	56.7	57.0 60.7	57.1 60.8	57.1 60.P	57.1 60.6	57.1 60.8	57.1 60.6	57.1 60.8
≥ 4500 ≥ 4000		46.2	51.4	52.8 56.1	56.4	57.6 61.2	63.4	62.0	62.1	62.5	62.6	66.4	66.4	66.4	62.6 66.4 70.3	66.4 70.3
≥ 3500 ≥ 3000		51.6 55.2	58.1	59.2 63.7	68.3	69.6	67.3 71.8	74.5	74.6		70.3 75.1	70.3 75.1	70.3 75.1	70.3 75.1 78.9	75.1 78.9	75.1 78.9
≥ 2500 ≥ 2000		60.1	63.3	67.0 70.2 71.6	75.7 77.3	73.0 77.2 78.8	75.4 79.6 81.2	78 • 2 82 • 4 84 • 2	78.3 82.5 84.4	78.8 83.0 84.8	78.9 83.1 85.1	78.9 83.1 85.1	78.9 83.1 85.1	85.1 85.1	63.1 85.1	33.1
≥ 1800 ≥ 1500		63.3	67.1	74.6 75.8	80.8			88.2	88.3	88.8	89.0 90.7	89.0			89.0	89.0
≥ 1200 ≥ 1000 ≥ 900		64.2	68.3	76.1 76.1	82.5	84.5					91.7	91.7	91.7	91.7	91.7	91.7
≥ 800		64.2	68.3	76.1 76.2	83.0	85.1 85.2	87.7	91.5		92.2 92.8	92.6 93.2			92.7	92.7 93.3	93.3
≥ 600		64.3	68.4	76.4 76.4	83.3	85.4		92.7	92.5	93.3	93.7	93.7	93.9	93.9	93.9	93.9
≥ 500 ≥ 400 ≥ 300		64.3		76.4 76.4	83.3		88.2	92.7	93.3	94.8	95.6		96.2	96.2	96,2	96.2
≥ 200		64.3		76.4	83.3	85.5	88.3	92.9	93.7	95.7 95.7	97.1	98.0	99.1	99.2	99.3	99.3
≥ 100		64.3		76.4		2. 2				95.7	97.1	98.0				100.0

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1500-1700

CEILING						···········	VIS	BILITY ST	ATUTE MIL	ES.						
(FEET)	≥10	≥6	≥5	≥ 4	≥3	≥2%	≥ 2	≥1 ?	≥1'4	≥1	≥ اب	≥ ',	≥ ,	≥5 16	≥.	≥0
NO CEILING		22.7	24.1	26.3	28.3	29.3	30.4	32.4	33.3	33.5	33.9	34.0	34.0	34.0	34.0	34.1
≥ 20000		30.7	32.3				40.7	43.5	44.7	45.3	45.7	45.9	45.9	45.9	45.9	46.0
≥ 18000		30.9	,	35.2		39.2	41.0	43.7	45.0	45.5	45.9	46.1	46.1	46.1	46.1	46.2
		30.9		35.2	37.9	39.2	41.0	43.7	45.0	45.5	45.9	46.1	46.1	46.1	46.1	46.2
≥ 14000 ≥ 12000		31.5		35.9	38.6	39.9	41.6	44.4	45.7	46.2	46.6	46.9	46.8	46.8	46.8	+6.9
		34.7		39.7	42.3	43.7	45.4	49.2	49.4	50.0	50.3	50.6	50.0	50.6	50.0	0.7ر
≥ 10000		38.0	40.4	43.9	46.7	48.1	49.8	52.5	53.9	54.5	54.8	55.0	55.0	55.0	55.0	
≥ 8000		39.2		45.8	48.6		52.1	54.8	56.2	56.8	57.1	57.3	57.3		57.3	57.4
≥ 7000		39.6		46.1 47.6	49.0 50.5	50.6	52.5	55.3	56.6	57.2	57,6	57.8	57.8	57.8	57.d	57.9
≥ 6000		43.5		50.5	53.3	52.1 54.9	54.2 57.1		58.5 61.6	59.0 62.2	59.4 62.6	59.6 62.8	59.6 62.8	59.6 62.8	62.8	59.7 02.9
≥ 5000		47.5		54.9	58.1	59.7	62.0	60.1 65.1	66.6	67.3	67.5	67.8	57.8	67.8	67.8	38.C
≥ 4500		49.1	52.4	57.0	60.2	61.9	64.3	67.4	68.9	69.6	69.9	70.1	70.1	70.1	70.1	70.3
≥ 4000		52.3		60.4	64.2		58.8	71.9	73.3	74.0	74.4	74.6	74.6	74.6	74.6	
≥ 3500		54.8		63.4	67.2	69.0	71.9	74.9	76.4	77.1	77.5	77.7	77.7	77.7	77.7	77.8
≥ 3000		57.0	60.6	65.9	70.3	72.1	75.3	78.7	80.2		81.2	81.5	81.5	81.5	81.5	61.6
≥ 2500		59.0	63.3	68.9	73.3	75.5	78.7	82.2	83.6	84.3	84.7	84.9	84.9	84.9	84.7	35.0
≥ 2000		60.6	65.1	71.3	76.3	78.7	81.9	85.6	87.1	87.8	88.1	88.3	88.3	88.3	88.3	38.4
≥ 1800		61.3	66.0	72.2	77.3	79.7	83.0	86.6	88.1	88.8	89.1	89.4	89.4	89.4	39.4	89.5
≥ 1500		62.1	66.9	74.0	79.2	81.6	84.9	88.6	90.2	90.8	91.2	91.4	91.4	91.4	91.4	91.5
≥ 1200		62.9	67.8	75.3	80.8	83.2	86.7	90.6	92.2	92.9	93.2	93.5	93.5	93.5	93.5	93.6
≥ 1000		62.9		75.4	81.0	83.4	87.1	91.0	92.6	93.4	93.7	93.9	94.1	94.1	94,1	94.2
≥ 900		62.9		75.7	81.5	84.1	87.8	91.8	93.4		94.5	94.7	94.9	94.9	94.9	
≥ 800		62.9		75.7	81.6	84.2	87.9		93.8	94.6		95.7	95.3	95.3	95.3	
≥ 700		62.9		75.7	81.6	84.3	88.0	92.3	93.9	94.7	95.1	95.3		95.4	95.4	
—		62.9		75.7	81.6	84.3	83.1	92.6	94.3	95.1	95.4	95.7	95.8	95.8	95.8	
≥ 500		62.9		75.7	81.6	84.3	83.2	92.8	94.5		95.9	96.2	96.3	96.3	96.3	
—		62.9		(2)	81.6	84.3	38.2		94.6		96.3	96.8	96.9	96.9	96.9	
≥ 300		62.9		75.7	81.6	84.3	88.2	93.0	94.9	95.9	97.1	97.6	97.8	97.9	97.9	
		62.9	68-1	75.7	81.6	84.3	88.2		94.9	95.9	97.3	98 1	98.3	98.6	98.6	
≥ 100 ≥ 0		62.9		75.7	81.6	84.3	88.2 88.2		94.9		97.3 97.3	98 • 2 98 • 2	98.5 98.5	99.0 99.3	99.0 99.4	99.1 100.0

874

USAF ETAC NIL4" 0-14-5 (OL A) PREVIOUS EDITIONS OF

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1800-2000

CEILING							VIS	BILITY (STA	ATUTE MILI	ES						
(FEET)	≥10	≥6	≥5	≥4	≥3	≥212	≥ 2	≥112	≥1%	≥1	≥ 1,	≥ 5/0	≥''n	≥5 16	≥ ,•	≥0
NO CEILING ≥ 20000		25.0	26.6			33.6			38.7	39.1 45.4	39.2 46.0	39.2	39.2 46.6	39.4 46.8	39.4 46.6	39.7 47.0
≥ 18000 ≥ 16000		30.0	31.9			40.1	41.7	44.8 44.8	46.1	46.6 46.6	46.7	46.7	46.7	46.9	46.9	47.1 47.1
≥ 14000 ≥ 12000		30.9	32.8			41.1	42.6	45.7 49.2	47.0 50.5		47.6	47.6 51.1	47.0 51.1	47.8 51.3	47.6 51.3	48.1 51.6
≥ 10000 ≥ 9000		37.3 37.8	39.3	43.5 44.0	47.7	48.8 49.4	50.4	53.6 54.1	54.8 55.4		55.4 56.0	55.4 56.0	55.4 56.0	55.7 56.2	55.7 56.2	55.9 56.5
≥ 8000 ≥ 7000		38.9	41.0 43.2			51.3 53.7	53.0 55.3	56.1 58.5	57.4 59.7	57.9 60.2	58.0	58.0 60.3	58.0 60.3	58.2 60.6	58.2 60.6	58.5 60.8
≥ 6000 ≥ 5000		43.3 47.5	45.7 50.1	50.5 55.2	55.3 60.1	56.4 61.1	58.0 62.8	61.6	62.9		63.5 68.4	63.5	63.5 68.4	63.7 68.6	63.8 68.7	54.2 9.1
≥ 4500 ≥ 4000		50.2 51.8	53.1 54.8	58.2 60.3		64.5	66.5	70.7 72.7	71.5 74.0		72.1 74.6	72.1 74.6	72.1 74.6	72.3 74.8	72.0	72.8 75.3
≥ 3500 ≥ 3000		53.7 56.4	56.7 59.9	62.5		69.5 73.4	71.6 75.8	75.4 79.7	76.7 81.0	77.1 81.4	77.2 31.6	77.2 81.6	77.2 81.6	77.5 81.8	77.6 81.9	77.9 82.3
≥ 2500 ≥ 2000		58.0 60.0	61.6	67.8 70.9	1	75.7 79.6	78.3 82.1	82 · 1 86 · 2	83.4 87.5	83.9 88.0	84.0 88.1	84.0 88.1	84.0 88.1	84.2 83.3	84.4 88.4	84.7 88.8
≥ 1800 ≥ 1500		60.8	64.5	71.5 72.6	78.8 80.0	80.3 81.6	32.8 84.1	56.9 88.3		58.7 90.1	88.8 90.2	88.8 90.2	88,8 90.2	89.0 90.4	89.1 90.5	39.5 90.9
≥ 1200 ≥ 1000		61.4	66.2	73.9 74.1	81.7	83.2 83.4	85.9 86.3	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	91.5	92.4	92.1 92.5	92.1 92.5	92.1 92.5	92.3 92.8	92.4 92.9	92.8
≥ 900 ≥ 800		61.5 61.5	66.2	74.2	82.0 82.1	83.5	86.5 86.6	91.0	92·3	92.5 92.8	92.6 92.9	92.6 92.9	92.6 92.9	92.9 93.1	93,0 93,2	93.3 93.6
≥ 700 ≥ 600		61.5	66.2	74.3	82.4 82.5	83.9	86.8 87.0	91.6	92.5 92.9	93.3	93.1 93.5	93.1 93.5	93.1 93.5	93.3 93.7	93,5 93,8	93.8
≥ 500 ≥ 400		61.5	66.2	74.3		84.1 84.1	87.0 87.0	92.2	93·1 93·5	93.7 94.2	93.9	93.9	93.9 94.4	94.2 94.6	94.3 94.7	94.6
≥ 300 ≥ 200		61.5 61.5				84.1 84.1	87.0 87.0	92.5		95.1	95.6	95.4 95.7	95.4 95.7	96.0	95.9	
≥ 100 ≥ 0		61.5		1 - 1 - 2	1 "1	84.1 84.1	57.0 57.0			95.1 95.1		95.8 95.8		96.4 96.5	96.7 97.0	97.4 100.0

USAF ETAC PULSE 0-14-5 (OL A) PREVIOUS ED

CEILING VERSUS VISIBILITY

RHEIN-HAIN AFT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							V:S	BILITY ST	ATUTE MIL	ES						
(FEET)	≥10.	≥6	≥5	≥4	≥3	≥27⁄2	≥2	≥1%	≥1.	≥1	≥ 14	≥,,	≥ 7	≥ 5 16	≥ .	≥o
NO CEILING		18.1	20.1	23.8	28.1	29.4	30.5	33.4	34.5	35.8	36.4	36.6	36.7	36.8	37.1	37.7
≥ 20000		20.4					34.5	37.6	38.6				41.0	41.1	41.4	41.9
≥ 18000 ≥ 16000		20.5		27.1			34.6	37.7	38.7	40.0	40.6	41.0	41.1	41.2	41.5	42.1
		20.5			31.9			37.7		40.0	40.6	41.7	41.1	41.2	41.5	42.1
≥ 14000 ≥ 12000		20.9	1		32.2			36.7	39.1	40.4	41.0	41.4	41.5	41.6	41.8	+2.4
		22.5		29.1	34.1			40.0	41.4	42.7	43.2	43.5	43.7	43.8		44.7
≥ 10000 ≥ 9000		25.2		32.5	38.0		40.9	44.1	45.4	46.7	47.3	47.6	47.7	47.9		48.7
≥ 8000		26.2			39.7			45.7		48.3		49.3	49.4	ر و 40	49.8	50.4
≥ 7000	į	27.5			41.4	42.9	44.2	47.4	48.7	50.0		50.9	51.1	51.2		52.0
≥ 6000		33.1			43.8			49.9		52.5		53.4		53.7	53.9	54.5
≥ 5000		35.9		41.7	48.0 51.2	- 1		54.5		57.3		58.5	56.6			59.6
≥ 4500		37.6		44.9	51.3 54.1		57.2		59.5	60.8			62.1	62.4		63.4
≥ 4000		41.8	46.1	52.3	59.7			61.0		64.0	64.8		65.3	65.4		
≥ 3500		44.4			62.8			70.7	72.4	73.7	70.7	71.1	71.2	71.6		
≥ 3000	i	47.7	, , , ,		67.1	• .		75.6	77.3	78.6		79.7	1	80.2		76.3
≥ 2500		48.9			70.1		74.2	78.7	80.3	81.6	82.5	82.8	82.9	83.3	83.6	81.2
≥ 2000	- 1	50.5	55.3		72.6			81.3			85.1	85.4		85.9		36.8
≥ 800		50.9	55.9	63.9	73.5		77.5	82.2	83.9	85.2	86.0	86.4	86.5	86.8		87.8
≥ 1500		51.3	56.5	64.7	74.6		78.8	83.5			87.6	87.9	88.0	88.4	88.7	09.3
≥ 1200		51.7	57.1	65.5	76.2	78.4	80.3	85.1	86.8	88.3	89.1	89.5		89.9		90.9
≥ 1000		51.7	57.1	65.6	76.3	78.6	80.5	85.2	87.0		89.2	89.6	89.7	90.0		91.0
≥ 900		51.7	57.1	65.8	76.7		81.0	85.8	87.6	89.0	89.8	90.2	90.3	90.6		91.5
≥ 800		51.7	57.1	66.0	76.9	79.3	81.4	86.1	87.9	89.3	90.2	- 1		91.0		71.9
≥ 700	l	51.7	57.1	66.0	77.0	79.4	81.5	86.3	88.0	89.5	90.3	90.5	90.8	91.1	91.5	92.1
≥ 600		51°-7	57.1	66.0	77.3		81.8	86.5	88.3	89.7	90.5	90.9		91.4	91.7	92.3
≥ 500 ≥ 400		51.7	57.1	66.q	77.3		81.8	86.6	88.4	89.9	90.8	91.1	91.2	91.6	91.9	92.5
		51.1	57.1	66.0	77.3			86.8			91.2	91.4	91.7	92.1	92.4	93.0
≥ 300 ≥ 200	- 1	51.	57.2	66.0	77.3		82.3	87.6	90.3		92.9	93.5	93.6	94.0	94.3	94.9
		51.	57.1	66.1	77.6	80.0	82.5	87.9	90.8	92.7	93.5	94.2	94.3	94.7	95.0	95.7
≥ 100	ļ	51.7	57.1	66.1	77.4	80.0	82.5	87.9	90.8	92.7	93.5	94.2	94.3	94.7		96.7
- '		51.7	57.1	66.1	77.4	80.0	82.5	87.9	90.8	92.7	93.5	94.2	94.3	94.8	95.3	100-0

USAF ETAC 10RM 0-14-5 (GL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETI

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0000-0200

CEILING							VIS	BILITY (ST.	ATUTE MILI	F\$						
(FEET)	≥10	≥6	≥5	≥4	≥3	≥2'0	≥2	≥1'2	≥1'•	≥1	≥ ′4	≥',	≥ ?	≥ 5 16	≥ .	≥0
NO CEIUNG ≥ 20000		15.2 17.0	17.4	20.4 22.6	22.9 25.5	24.1 27.0	24.5	26.0	27.2 30.5	36.7	7.6 30.9	27.6 30.9	27.0	27.9 31.2	27.9 31.2	28.4 31.7
≥ 18000 ≥ 16000		17.1 17.3	19.5	22.7	25.6 25.9	27.1 27.3	27.7 27.9	29.4	30.6 30.9	30.4 31.1	31.0 31.2	31.7	31.2 31.5	31.3 31.6	31.3 31.6	" " "
≥ 14000 ≥ 12000		17.4	20.0		26.1 28.2		28.2 30.2	29.9 32.1	31.3 33.5	31.6 33.8	31.7 33.9	31.7	32.0 34.1	32.1 34.3	32.1 34.3	32.6 4.8
≥ 10000 ≥ 9000		20.6	23.7	27.9 28.8	30.9	32.3	32.9 33.8	35.0 35.0	36.5	36.7 37.6	26 · 원 37 • 7	36.8 37.7	37.1 37.9	37.2 38.0	37.2 38.0	
≥ 8000 ≥ 7000		21.7	24.9	29.3 30.7	32.2	33.7 35.1	34.3 35.7	36.3	37.8 39.4	38.0 39.6	38.2 39.6	38•? 39•°	38.4 40.0	38.5 40.1	38,5 40,1	39.0 40.6
≥ 6000 ≥ 5000		24.9	28.4	33.3 36.1	36.8 40.0	38.3 41.5	35.9 42.1	41.2	42.7 45.9	42.9	43.0 46.2	42.0 46.2	43.3	43.4	43.4	47.1
≥ 4500 ≥ 4000		29.4 32.8	33.2 37.0	38.5 42.7	43.0	44.5	45.1 50.5	47.4 52.8	48.9 54.3	49 • 1 54 • 5	49.3	49.3 54.6	49.5 54.9	49.6 55.0	49.6 55.0	55.5
≥ 3500 ≥ 3000		35.0 38.4	39.3 43.4	45.0 50.0	50.5 55.7	52.3 57.7	53.0 58.5	55.4 61.0	57.0 62.7	57.2 62.9	57.3 63.0	57.3 63.0	57.6 63.3	57.7 63.4	57.7 63.4	58.2 63.9
≥ 2500 ≥ 2000		40.4	45.6	52.4 56.1	59.4 63.8	61.3	66.8		66.6 71.2	71.5	67.0 71.6	67.0 71.6	67.2 71.8	67.3 72.0	67.3 72.0	
≥ 1800 ≥ 1500		44.6	50.5 52.0	57.9 59.6	65.9		68.9 71.7	71.6	73.3 76.2	73.5 76.6		73.7 76.7	73.9 77.0	74.0 77.1	74.0 77.1	77.6
≥ 1200 ≥ 1000		47.1 47.3	53.7 54.0	61.8 62.4	71.6 73.2	73.9 75.5	75,2 77.0	78.4 80.5	80 • 1 82 • 2	80.5 82.6		80.6 82.7	80.9 82.9	81.0 83.0	81.0 83.0	83.5
≥ 900 ≥ 800		47.6 47.7	54.5 54.6	63.2	73.9 74.1	76.5	78.7	81 · 8 82 • 7	83.5 84.5	83.9	84.C 85.C	84.0 85.0	85.2	84.4 85.4	84,4 85,4	84.9 85.9
≥ 700 ≥ 600		47.7 47.8	54.9	63.5	74.6 75.1	77.6	79.4 80.1	83.4 84.1	85•2 86•1	85.6 86.5	85.7 86.6	85.7 86.6	86.0 86.8		86.1 87.0	
≥ 500 ≥ 400		47.8	54.9	63.8	75.5 75.6	78.9	61.1	85.4 86.1	87.3 88.0	87.7 88.4	87.8 88.5	87.8 88.5	88.0	88.9	88,2 88,9	89.4
≥ 300 ≥ 200		47.8	55.0 55.0	63.9	75.9 75.9	79.3	82.0 82.1	87.9 88.3	90.4 91.0	90.9	91.1 93.2	91.1 93.2	91.3	91.5	91,5 94,1	95.0
≥ 100 ≥ 0		47.8 47.8	55.0 55.0	63.9	75.9 75.9	79.3 79.3	82.1 82.1	88 • 4 88 • 4	91.1 91.1	93.3	93.9	93.9	94.4	95.4 95.9	95,6 96.1	97.4 160.0

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

CEILING	-						VIS	BILITY (ST)	ATUTE MIL	ES:						
FEE	≥10	≥6	≥5	≥4	≥3	≥2'>	≥ 2	≥1'2	≥1'4	≥1	≥ ,4	≥ `•	د، ≤	≥5 16	≥ .	≥0
NO CEILING ≥ 20040		12.3	13.9	16.8	19.8	20.8	21.4	22.8 25.1	23.6		23.7	23.8 26.1		23.8	23.6	24.5
≥ 18000 ≥ 16000		13.6	15.3	18.3 18.3	21.8	23.1	23.7	25.1 25.1	25.9	26.0	26.G	26.1	26.1 26.1	26.1	26.1	26.8
≥ 14000 ≥ 12000		13.9	15.0	18.6	22.2	23.5	24.0	25.4	26.2	26.4	26.4	26.5	26.5	26.5 28.0	26.5 28.0	27.2
≥ 10000 ≥ 9000		17.1 18.6	19.0 20.5		26.7 28.4	28.1	28.7 30.4	30.1 31.9	31.0	31.1 32.9	31.1 32.9	31.2	31.2 33.1	31.2 33.1	31.2 33.1	33.5
≥ 8000 ≥ 7000		19.2 20.6		25.2 26.7	29.1 30.9	30.5	31.1	32.6 34.5	33.5 35.4	33.6 35.5	33.6 35.5	33.9 35.6	33.8 35.6	33.8 35.6	33.8 35.6	36.
≥ 6000 ≥ 5000		22.0		28.6 32.8	32.7 37.0	34.1 38.4	34.8	26.3 40.6		37.3 41.6	37.3 41.6	37.5 41.7	37.5 41.7	37.5 41.7	37.5 41.7	38 · ;
≥ 4500 ≥ 4000		27.7	30.1 32.1	35.4 37.8	39.8	41.2	41.8	43.4 46.9	44.3	44.4 48.0	44.4 48.0	44.5 48.1	44.5 48.1	44.5 48.1	44.5 48.1	45.
≥ 3500 ≥ 3000		32.0 35.1	34.6 37.9	1	46.0 50.2	47.5 51.8	48.4 52.7	50.4 54.7	51.3 55.6		51.4 55.7	51.6 55.8		51.6 55.8	1 7	52. 56.
≥ 2500 ≥ 2000		37.7 40.7	40.7 44.0	47.7 52.5	54.6 60.0	56.3 62.0	57.2 63.1	59.3 65.4	60.2		60.3	60.5	60.5	60.5 66.6	60.5 66.6	07.
≥ 1800 ≥ 1500		41.4	44.7 47.1	54.0 57.7	61.8	68.2	65.0 69.7	67.3 72.4	68.3 73.4		68.4 73.5	68.6 73.6	68.6 73.6	68.6 73.6		69. 74.
≥ 1200 ≥ 1000		44.5		l	68.7 69.9	71.6 73.3	73.2 75.4	76.3 78.6	77.3 79.8		77.5	77.6 80.0		77.6 80.0	80.0	
≥ 900 ≥ 800		44.6	49.1	60.7	70.4 71.3	73.9 74.9	76,3 77.6		80.7 82.2	82.3	82.3	80.9		80.9 82.4	80.9 82.4	81.
≥ 700 ≥ 600		44.7	49.4	60.9 61.4	71.7 72.1	75.3 75.8	78.0 78.6	81.6 82.4	82.8 83.8	83.9	82.9 83.9	83.0 84.0	84.0	83.0 84.0	84.0	83. 84.
≥ 500 ≥ 400		44.9	49.4	61.5	72.4 72.8	76.1 76.6	79.4 80.1	83.9 85.2	85.3 86.7	86.8	86.8	85.5 86.9	86.9	85.5 86.9	85, 5 86, 9	86. 87.
≥ 300 ≥ 200		45.0	49.7	61.7	73.1 73.1	76.9 "76.9	80.3	86.1 87.3	98.0 90.9	91.9		88.6 92.5	88.6 92.7	88.6 93.1	93.3	94.
≥ 100 ≥ 0		45.0		61.7	73.1	76.9 76.9	80.3	87.3	-		92.8 92.8	93.2	93.5 93.8	94.6		

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

CEILING							VIS	BILITY (ST	ATUTE MILI	ES						
IFEET.	≥10	≥6	≥5	≥4	≥3	≥275	≥ 2	≥1?	≥1.	≥1	≥ : ₄	211	≥ .	≥5 15	≥ .	≥0
NO CEILING ≥ 20000		9.8 11.8		11.7	14.8 17.7		16.8 20.6	23.9			25.1	20.7 25.1	25.1	25.3	25.3	25.7
≥ 18000 ≥ 16000		11.8	12.5	14.1 14.1	17.7 17.7	19.0 19.0	20.6				25.1 25.1	25.1 25.1	25.1 25.1	25.3	25.3	25.7
≥ 14000 ≥ 12000		11.8	13.3	14.3 15.3	17.6 19.0	20.3	26.7		24.9		25.3 26.8	25.3 26.°	25.3 26.8	25.9	20.4	27.3
≥ 10000 ≥ 9000		14.1 15.2	16.6		23.3		25.1 26.8	30.5	29.9 31.6		30.2 32.0	30.2 32.0		32.1	30.4 32.1	32.6
≥ 8000 ≥ 7000		16.0	18.2	21.0	25.1	26.1 26.8			33.0 34.0	33.3 34.2	33.4	33.4		33.6 34.5	33.0 34.5	0.5و
≥ 6000 ≥ 5000		18.4 20.3			27.5 29.7	31.7	31.2 34.1	38.9	36.5 40.0	36.7 40.2	36.8 40.3	36.8 40.3	40.3	37.1 40.6	37.1 40.6	41.0
≥ 4500 ≥ 4000		23.6	25.6		34.8	37.1	36.8 39.6	45.1	43.1 46.1	43.3	43.5	46.5		43.7	46.7	44.1
≥ 3500 ≥ 3000 ≥ 2500		25.3 28.6 30.0	31.1	31.4 35.5 37.1	36.7 41.3	39.4 44.0	42.1	47.9 52.7	49.0 54.0	49.2 54.2	54.3	49.4 54.3		49.6 54.6 59.1	49.0 54.6 59.1	55.0
≥ 7500 ≥ 2000 ≥ 1800		32.8	35.6	41.0			49.7 55.5 57.9	56.9 63.5	58.5 65.2 67.8	58.7 65.5	58.9 65.7 68.3	53.9 65.7	65.7	65.9	65.9	66.4
≥ 1500		36.3	39.3	45.9	54.7	58.3	61.5	66.0 69.8 73.6	71.7	72.1 76.1	72.3	72.4	72.4		72.7	
≥ 1000		37.4	40.6	48.3	38.5	62.6	66.4	75.4 75.8	77.9	78.2 78.6	78.4	78.6	78.6	_ ~ ~ .	78.8 79.1	
≥ 800		37.4	40.7	48.9	59.3	63.5	67.7	77.5 78.3	80.0	80.4	80.6	80.ª	80.8	81.0		51.5
≥ 600		37.4	40.9	49.7	60.1	64.4	68.9		82.2	82.7	83.0	83.1	83.1	83.3		33.8
≥ 400		37.4 37.5	40.9	49.9	60.6	7 7 4 7	70.0		84.8	85.5 87.4		86.1	86.1 88.5	86.3	86.3 88.9	8.66
≥ 200		37.5	41.0		60.7	65.2	70.2	83.1	87.6	89.2		91.2	91.9	92.7	92.9	
≥ 100 ≥ 0		37.5		50.1			,								· · ·	100.0

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERHANY/FRANKFURT 67-76

CEILING FEET							VIS	IBILITY (ST	ATUTE MIL	ES						
7667	≥10	≥6	≥5	≥4	≥3	≥2'5	≥ ?	≥115	21.4	≩ 1	≥ '₄	≥,,	2:	≥5 16	≥ .	≥0
NO CEILING 2 20000		8.6 12.8		11.2 16.3		14.8			17.G 24.8			17.5	17.6		1	:7.6 25.7
≥ 18000 ≥ 16000		12.9 12.9	14.2	16.4 16.4	20.1	22.0	23.0	24.6	24.9	25.5 25.5	25.6	25.6	25.7 25.7	25.7	25.7	25.9
≥ 14000 ≥ 12000		13.0 13.3	14.3 14.9	16.5 17.1	20.9		23.1 24.0	24.	25.0	25.7 26.4	25.7	25.7	25.9			26.8
≥ 9000		14.9 15.9	16.6 17.7	19.4 20.5	23.6 25.0	25.0 27.5	27.2 28.7	29.3 30.8	29.6	30.2 31.8	30.3	30.3	30.5	30.5	20.5	20.6 20.1
≥ 8600 ≥ 7000		16.3	18.1	20.9 21.8	25.4 26.3	27.9 28.9	29.0 30.2	31.3	31.6 32.8	32.2	?2.3 33.5	32.5	32.5		32.5	32.6
≥ 6000 ≥ 5000		18.3 20.3	20.2	23.1 25.5	27.7 30.2	30.7 33.2	32.1 34.6	34.	34.8	33.4	35.5 38.5	35.5	35.7	35.7	35.7 38.7	35.8
≥ 4500 ≥ 4000		22.6 25.5	24.7	27.7 31.2	33.3 37.8	36.2 41.1	37.8 42.7	40,5	41.1	47.1	41.8	41.8	41.9	41.9	41.9	42.0
≥ 2500 ≥ 3000		28.5 31.6	31.2 34.7	34.7	41.6	45.0 49.5	6.5 57.	50.4 55.8	51.0 56.4	51.6 57.0	51.7 57.1	51.7	51.8	.51.8 57.3	51.8 57.3	51.9
≥ 2500 ≥ 2000		34.1 36.0	37.3 39.4	41.9	50.3 53.5	54.3 57.6	57.5 61.2	62.5	65.0 67.8	63.8	63.9	68.6	64.0	64.0	64.0	04.1
≥ 1800 ≥ 1500		37.3 39.0	42.9	48.	55.5 58.3	59.7 62.6	63.4 66.6	69.5 73.4	74.4	71.1 75.2	71.2	71.7	71.3	71.3 25.4	71.3	71.4
≥ 1200 ≥ 1000	···	40.3	44.6	51.0	63.3	66.6	70.8	77.7 79.7	78.9 80.6	79.8 81.6	79.9 81.7	80.0 81.8	80.2	80.2	80.2	30.3 82.1
≥ 900 ≥ 800		40.5	44.9	51,9 52.3	64.1	69.1	73.4 73.4	80.4 81.2	31.3 82.4	82.3 83.4	82.4	83.6	82.6 83.7	82.6	82.6	62.8
≥ 700 ≥ 400		41.0	45.2	52.7	64.6	69.7	73.9	82.2 83.4	83.5 84.7	84.4	86.0	84.7	84.3	84.8	84.8	84.9
≥ 500 ≥ 400		41.2	65,3	52.8	64.9	70.2	75.1 75.2	84.3	85.7	86.9	87.1 89.6	87.2 89.8	90.0	90.0	90.0	90.1
≥ 300 ≥ 200		41.2	45.3	52.8	64.9	70.2	75.4	85.8 85.1	87.8	90.4	92.4 93.3	92.9 94.0	93.2	93.3 95.2	93.3	93.4
> 100 ≥ C		41.2	45.	52.8	64,9	70.2	75.4 75.4	86.1 86.1	86.1	90.9	93.3	94.0	94.6	95.5	95.7	97.4

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GEFMANY/FRANKFURT 67-76

					`					10143)						
CEILING		-					VS	IRILITY -ST	ATUTE MIL	25						
(FEFT)	≥10	≥6	≥5	≥ 4	≥3	≥2'2	≥ 2	≥1'2	≥1.	≥1	≥ 14	≥,,	2	≥5 16	2.	≥0
NO CEILING ≥ 20000		13.2	13.6				17.4			18.4				18.6		
≥ 18000 ≥ 18000		18.6 18.6			24.3	25.1	25.4	25.7	26.1	26.7	26.7	26.8	26.9	25.9	25.9	25.9
≥ 14000 ≥ 12000		13.7	19.6	22.4	24.4	25.3	25.5	28.9	26.2	26.8	26.3	25.9	27.0	27.0	27.0	27.0
≥ 10000 ≥ 9000		24.0		28.1	30.7	31.8	32.1	32.9	33.2	33.8	33.9		34.2	34.2	34.2	34.2
≥ 8000 ≥ 7000		25.1 25.4			33.2	34.4	34.6	35.6	35.9	36.5	36.7		36.9	36.9	36.9	36 9
≥ 6000 ≥ 5000		26.6 28.6	28.0	31.7	35.5 38.1	36.7	37.0	37.8	33.2	38.8	38.9	39.0	37.4	39.1	39.1	39.1
≥ 4500 ≥ 4000		30.4	32.0 36.1	35.9	40.2	41.8	42.3	43.3	43.7	44.2	44.4	44.5	42.2	44.6	44.6	44.6
≤ 3500 ≥ 3000		37.8 41.0	40.2	44.6	49.1	51.1	52.2	53.3	48.6 53.6	54.2	54.3	54.7	54.8	54.8	49.0 54.8	54.8
≥ 2500 ≥ 2000		45.9	48.9		60.6	02.9	64.9	66.9	67.3	67.9	68.1	68.5	68.7	68.7	61.3	08.7
≥ 1800 ≥ 1500		53.d	53.4	59,3 63.0	65.8	68.1	70.7	73.4	72.0	74.4	72.8 74.6	75.1	75.3	75.3	73.5	73.5
≥ 1200 ≥ 1000		53.4	57.3 57.5	64.4	72.1	74.6	77.6	78.1 81.3	81.9		92.7	83.3	83.5	83.5	80.3	83.5
≥ 900 ≥ 800		53.4	57.7	65.0	73.4	76.2	79.7	84.7	84.7	85.2	85.6	86.1	86.5	86.4	86.5	36.4
≥ 700 ≥ 600		53.4	57.7 57.7	65.4	73.9	76.7	80.7	85.9	86.0	86.6	87.7	87.5	87.8	83.5	87.8	38.5
≥ 500 ≥ 400		53.4	57.7 57.7	65.4	73.9	76.7	81.4	88.0	88.8	90.0	90.6			91.5	91.5	69.6 91.5
≥ 300 ≥ 200		53.4	57.7	85.4	73.9	77.1	81.7	88.5	89.8		94.1	95.3	93.1	93.1	93.1	93.1
≥ 100		53.4	57.7	65.4	73.9	77,1	21.4	88.6	89.8	92.8	94.4	96.0	96.4	97.0	97.3	98.3
≥ ^		53.4	57.7	65.4	73.9	77.1		88.6		92.8			96.6	97.6	98.21	90

CEILING VERSUS VISIBILITY

35032 R GIN-MAIN APT GERMANY/FRANKFURT 07-76

407

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1500-1700

CEILING							۷IŞ	IBILITY (ST	ATUTE MILE	ES ¹						
FEET	≥10	≥6	≥5	≥4	≥3	≥2'ז	≥2	≥1′ז	≥1′4	≥1	≥ '₄	≥'•	۵, ≷	≥5 16	≥ '4	≥0
NO CEILING ≥ 20000		16.0 21.6		25.1	27.0	21.4 28.6	22.0 29.5		23.2 30.8	31.2	31.2	23.6 31.2	23.9 31.5	23.9 31.5	23.9 31.5	11.5
≥ 18000 ≥ 16000		21.6		25.1 25.1	27.0	28.6 28.7	29 .6 29 .7	30.9 31.0	30.9 31.0	31.4	31.4 31.5	31.4	31.6 31.7	31.6	31.6	1.7د
≥ 14000 ≥ 12000		22.6		26.1 28.1	28.1 30.2		30.9	32.2 34.3				34.0	32.9 35.0		32.9 35.0	
≥ 10000 ≥ 9000		27.3		31.6	33.8 35.6	35.7 37.5	37.1 39.1	38.5 40.7	38.6 41.0	39.1 41.4	39.1 41.4	39.1 41.4	39.3 41.7	39.3	39.3	39.3
≥ 8000 ≥ 7000		29.3	32.8	34.4 34.6	37.3	39.3	40.6	42.6	42.5		43.0	43.7	43.2	43.2	43.5	43.2
≥ 6000 ≥ 5000		30.9	34.2	36.1 39.8	43.5	41.2 45.5	43.0 47.3	44.9	45.1	45.6	49.9	49.0	45.8 50.1	45.8 50.1	45.8 50.1	20.1
≥ 45(V) ≥ 4000		35.6 38.7	43.0	41.4	45.4	47.4 51.4	49.2 53.2	51.1 55.2	51.3 55.6		52.0 56.4	52.0 56.4	52.3	52.3 56.7	52.3 56.7	52.3 36.7
≥ 3500 ≥ 3000		42.9		50.0 54.3		56.8	63.8		67.3	68.3	68.3	68.3	68.5	68.5	62.8	8 • 5
≥ 2000		49.0 52.4	57.4	57.4 60.8			72.1	75.5	71.5	77.0		77.0	77.2	72.7	72.7 77.2	72.7
≥ 1800 ≥ 1500		53.3 54.3	59.7	63.4	68.9 70.5 72.9	71.5	76.4					79.7		82.2	79.9 82.2	2 • 2
≥ 1200 ≥ 1000		55.1 55.1	60.9	65.4	73.8	75.9 76.7	78.9 79.7	83.0 84.1		86.1	86,1	85.0	86.3	85.3 86.3	86.3	86.3
≥ 900 ≥ 800		55.1 55.1		65.4 65.7	74.5	76.8 77.6 77.8			85.0 86.6	87.9	87.9	86.3 87.9 88.5	88.2	88.2	86.6 88.2 88.8	38.2
≥ 700 ≥ 600 ≥ 500		55.1			74.7	77.9	81.4	86.7	7		89.3	89.3	89.7	89.7	89.7	89.7
≥ 500 ≥ 400 ≥ 300		55.1		65.8	74.7	78.3 78.3	81.8 81.8	88.8		92.3		92.5	92.9	92.9	92.9	
≥ 200		55.1 55.1	61.0	65.8	74.7		81.8	89.5	91.0	94.3	95.0	95.4	96.2	96.4	96.8 97.4	96.9
≥ 100 ≥ 0		1	61.0		74.7						95.0					100.0

TOTAL NUMBER OF OBSERVATIONS.....

04

USAF ETAC JULIA 9-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLE

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1806-2700

CEILING			····				VISI	BILITY ST	ATUIE MILI	£5,			······································			
(FEET)	≥10	≥6	≥5	≥.4	≥3	2.2'2	≥?	≥1'7	≥1'4	≥;	≥ 14	≥'•	≥ :	≥5 16	≥ .	≥0
NO CEILING ≥ 20000		18.0		22.1 25.1	25.7	26.4	27.1	28.0 31.9		28.9			29.0			29.6 33.4
≥ 18000 ≥ 16000		21.0	23.1	25.4	29.2	30.0	31.2	32.1	32.7	32.9	32.9	32.9	33.1	33.1	33.2 33.2	23.6
≥ 14000 ≥ 12000		21.0	23.8	26.1	29.9	30.7	31.9	32.8	33.4	33.6		33.4	33.8	33.8		33.6
≥ 10000 ≥ 9000		27.0 28.5	29.4	32.2		37.5		39.6		35.6 40.4	40.4	40.4	35.7 40.5 42.3	40.5	40.7	26.3 41.1 42.9
≥ 8000 ≥ 7000		29.2	31.7	34.5		39.8	41.0	41.4 42.1 44.5	42.6	42.2 42.9 45.3	42.9	42.0	43.0	43.0	43.1	43.6
≥ 6000 ≥ 5000		33.2			42.9	44.4		47.1	47.7	47.9	47.9	47.9	48.0	48.0	48.1	48.6
≥ 4500 ≥ 4000		38.6		44.4	49.6	51.4 55.8	52.8	51.2 54.4 59.0		55.6	55.6	55.4	52.5 55.7	55.7	55.8	
≥ 3500 ≥ 3000		45.0	48.0 50.6	51.6	57.7	59.7	61.1	63.1	59.8 63.9 67.9	64.5	64.5	64.5	60.5 64.6 68.6	64.6	64.7	51.1 25.2 59.2
≥ 2500 ≥ 2000		49.5			64.8	67.3	69.2	71.3		72.7	72.7	72.7	72.8	72.8	72.9	73.4
≥ 1800 ≥ 1500		52.2 53.0		61.6	69.4	72.1	74.5 77.3	77.0	77.8	78.5	78.5	78.5	78.6 81.7	78.6 81.7		79.2
≥ 1200 ≥ 1000		54.0 54.1	59.0 59.1		74.2	77.0	80.3	83.3	84.1	84.9		84.9	85.0	85.0	85.2	
≥ 900 ≥ 800		54.1 54.1	59.1 59.1		75.1	78.2	81.8	85 • 4 86 • 1	86.9	87.0	87.0	87.0	87.1	87.1	37.3	87.7
≥ 700 ≥ 600		54.1	59.1 59.1	65.4	75.7	78.9 79.3	83.1	86.8	87.6	88.4	88.4	88.4	88.6	88.6	88.7	89.1
≥ 500 ≥ 400		54.1	59.1 59.1	65.7	76.4	79.9	85.3	89.3	90.2	91.1		91.1	91.2	91.2	91,4	91.8
≥ 360 ≥ 200		54.1 54.1	59.1 59.1		76.6	80.3	86.0	91.6	92.8	93.8	93.9	94.0	94,2	94.2		94.7
≥ 100 ≥ 0		54.1 54.1	59.1	65.7	76.6	80.3	86.0	91.6		94.7	95.4	95.9	96.1	96.5		98.6

TOTAL NUMBER OF OBSERVATIONS

826

USAF ETAC 101.44 0-14-5 (OL. A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETI

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

.407

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

2100-2300

CEILING							VISI	BILITY IST	ATUTE MILL	S.						
FEET	≥10	≥6	≥5	≥4	≥3	≥2'2	≥2	≥17	≥1'4	≥1	≥ ,⁴	≥'•	≥ >	≥ 5 16	≥.	≥0
NO CEILING ≥ 20000		19.4		23.6	25.7	26.7	27.5	28.5	28.8		30.0	-		30.5	30.5	
		21.4	23.3	26.2	28.5	29.4	3c.7	31.6	32.0		33.2			33.6	33.0	
≥ 18000 ≥ 16000		21.4	23.3	26.2	28.5	29.4	30.7	31.6	32.0	33.1	33.2	33.3		33.6	33.8	1 -
		21.4	23.3		28.6	29.5	30.8	31.8	32.1	33.2	33.3	33.4		33.8	33.9	
≥ 14000		21.5	23.4	26.3	26.7	29.6	3:).9	31.9	32.2	33.3	33.4	33.5		33.9	34.0	
		22.3		27.5	30.1	31.2	32.5	33.6	34.1	35.2				5.9	36.0	
≥ 10000 ≥ 9000		25.6		31.4	34.2	35.3	36.6	37.8	38.3	39.3	39.4	39.6		40.1	40.3	
		26.9			35.7	36.7	38.0	39.2	39.7	40.7	40.9			41.6		42.0
≥ 8000 ≥ 7000		27.7	30.5	34.5	37.4	38.5	39.8	41.1	41.6	42.6		42.9		43.4	43.6	
		28.9		36.0	39.3	40.4	41.7	43.0	43.4	44.5	44.6	44.7	45.0	45.3		45.8
≥ 6000 ≥ 5000		30.9		38.0	41.8	42.9	44.2	45.5	46.2	47.2	47.3	47.5		48.1	48.2	48.5
<u> </u>		33.4	36.8		46.0	47.1	48.5	49.9	50.8				52.3		52.8	
≥ 4500 ≥ 4000		35.2			48.5	49.6	51.1	52.5	53.4	54.4	54.5	54.7	54.9	55.3	55.4	
	-	37.4			52.4		55.4		57.7	58.8				59.6		
≥ 3500		40.3	44.3	49.6	56.0	57.7	59.7	61.3	62.1	63.2				69.1	69.2	04.5
≥ 2500		45.3		56.3	64.8		64.3		67.1 71.8	68.2	68.4	000		73.8		
≥ 2000		48.3			69.1	66.8	68.9 73.3	70.7	75.2	73.0		73.2	73.4	7ª • 2	78.3	
≥ 1800		49.1		61.0	70.2	72.4	74.5	75.1 76.3	77.3	78.5			79.0	79.3	79.5	
≥ 1500		49.4			71.5		76.0	77.9	79.0	80.3	80.4			81.1	81.2	I . [
≥ 1200		50.9		63.8	74.5	76.6	79.3		82.4			83.9		84.5		85.0
≥ 1000		50.9	1 - • • -		75.1	77.6	80.5		83.9	85.2	85.4	85.5		86.1	86.2	1:
≥ 900		50.9		63.9	75.6	78.0	81.0	83.5	84.5	85.8		86.1	86.3	80.7	86.8	
≥ 800		51.1	57.6	64.2	76.3	78.7	81.8		85.8	87.1	87.2	87.4		86.0	88.1	88.4
≥ 700		51.2	57.7	64.3	76.7	79.2	82.4	85.4	86.7	88.0		88.2	88.4	88.8		
2 600		51.2	57.9	64.5	77.d	79.6	82.9	85.8		38.4		88.7		87.3	89.4	
≥ 500		51.2	37.9	64.5	77.7	80.5	83,8		88.3	89.6		89.8		90.4	90.6	
≥ 400		51.2	57.9	64.6	77.8	80.6	64.3			91.1	91.3	91.4	91.6	92.0	92.1	32.4
≥ 300		51.2	57.9	64.6	77.8	80.9	84.8			92.7	92.5	93.0	93.3	23.6	93.7	94.1
≥ 200		512	57.9	64.6	77.9	81.0	84.9	89.8		93.6	00.0	94.1	94.6	95.2	95.3	1
≥ 100		51.2		64.6	77.9	81.0	84.9			93.0				96.3		98.6
≥ 0		51.2		64.6	77.9	81.0	84.9							96.6		100.0
····	L	+								استنسا			لتشت			لنستت

USAF ETAC 20164 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FOL

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C:

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

UE.

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0000-0200

CEILING							VIS	BILITY STA	ATUTE MILI	ES)						
feet)	≥10	≥6	≥5	≥4	≥3	≥27⁄2	≥ 2	≥172	≥114	≥1	≥ 14	≥,,	د, ≥	≥ 5 16	≥'•	≥0
NO CEILING ≥ 20000		11.5	13.0			19.1 21.4	20.0	20.6	21.2		21.2	21.7	21.2	21.2	21.2	21.4
≥ 18000 ≥ 16000		12.7	14.4	16.8		21.6	22.6	23.1	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.9
≥ 14000 ≥ 12000		12.7	14.4	16.9 17.3		21.7	22.7	23.7 23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	24.1
≥ 10000 ≥ 9000		14.8 16.1	16.7 18.0	19.2 20.5		25.0 26.2	26.0	26.9 28.2	27.5 28.8	27.5	27.5 28.8	27.5 23.8	27.5 28.8	27.5 28.9	27.5 28.8	27.7
≥ 8000 ≥ 7000		16.5	18.4			25.7 28.5	27.7 29.7	28.7 30.6	29.2	29.2 31.2	29.2 31.2	29.7 31.2	29.2 31.2	29.2 31.2	29.2 31.2	99.5 1.4د
≥ 6000 ≥ 5000		19.4	21.7	24.6 27.4	30.4 33.6	30.8	32.2 35.9	33.1 37.1	33.7	33.7 37.6	33.7 37.6	33.7	33.7 37.6	32.7 37.5	33.7 37.6	33.9 37.9
≥ 4500 ≥ 4000		24.1 26.1	26.5	30.5 33.9	37.5 41.7	38.3 42.7	39.8	41.1 45.9	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.9 45.7
≥ 3500 ≥ 3000		28.7 30.7	32.0 34.5	36.5 39.0	47.3	46.1 48.8	48.1 51.0	49.9 52.9	50.6 53.6		50.6 53.6	50.6 53.6	50.0 53.6	50.6 53.6	50.6 53.6	20.9 53.9
≥ 2500 ≥ 2000		32.8 35.6	37.3 41.0	43.4 48.0	57.9	54.3 60.3	57.3	59.4 65.7	60.1 66.5		60.1 66.5	60.1 66.5	60.1	60 • 1 66 • 5	60.1 66.5	00.3 66.7
≥ 1800 ≥ 1500		37.1 39.4	42.8	54.3		62.8 67.7	66.1 71.5	68 • 4 74 • 5	69.2 75.4	75.4	69.2 75.4	69.2 75.4	69.2 75.4	09.2 75.4	69,2 75,4	75.6
≥ 1200 ≥ 1000		40.7	47.5			71.6 73.4	75.7	78.9 81.6	79.9 82.5		79.9 82.5	79.9 82.5	79.9 82.5	79.9 82.5	79.9 82.5	80.1 82.7
≥ 900 ≥ 800		41.2	47.9	59.0		74.5 75.5	79.3 80.4	83.1 84.0	84.0		84.0 85.6	84.0		84.0 85.6	84.0 85.6	35.8
≥ 700 ≥ 600	,	41.3	48.0	59.3 59.8		77.1 78.6	82.6	86.8	87.8 90.0	90.0		87.8 90.0	90.0		87.8 90.0	
≥ 500 ≥ 400		41.3	48.0	60.4	75.6	80.4	86.1 86.7	90.9	93.8		92.3	92.3 93.9	93.9	93.9	92.3	92.5
≥ 300 ≥ 200		41.3	48.0	60.4	76.2	80.8	87.0		95.4		96.5	97.0	97.1	95.5 97.4	95.6 97.5	27.7
≥ 100		41.3	48.0	60.4	76.2 76.2	80.8 80.8		93.3	95.5		96.9 96.9	97.5 97.5		98.2 98.2	93.7 99.0	99,7 100.0

TOTAL NUMBER OF OBSERVATIONS _

369

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM: ARE OBSOLETE

DATA PROCESSING BRANCH USAF ETAC AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY IST	ATUTE MILE	ES .						
(FEET)	≥10	≥6	≥ 5	≥4	≥3	≥2%	≥ 2	≥1 12	≥1'4	≥ì	≥ '₄	≥′,	≥ ?	≥ 5 16	≥ 14	≥0
NO CEILING ≥ 20000		10.7	11.5	12.7	15.5	16.0 17.8	17.5	17.9	18.1 19.9	19.1	18.1	18.2	18.3	18.3	18.2	20.2
≥ 18000 ≥ 16000		11.5	12.7	14.4	17.5 17.5	18.1 18.1	19.7	20.0	20.2	20.2	77.7	20.3		20.4	20.4 20.4	
≥ 14000 ≥ 12000		11.5 12.1	12.8	14.6 15.3	17.9 19.0	19.4	20.0	20.3 21.5	20.6	20.6	20.5	20.7	20.8	20.8	20.8	
≥ 10000		23.7 14.2	15.2 15.8	17.2 17.8	21.2	21.8	23.4		23.9	23.9 24.9	23.9	24 · n 25 · n		24.1 25.1	24.1 25.1	4.2 5.3
≥ 8000 ≥ 7000		15.3 16.0	16.9 17.8	18.9 19.9	24.5	23.8	25.6	25.9 27.5	26.1 27.7	26.1 27.7		26.3 27.3		26.4		
≥ 6000 ≥ 5000		17.4 20.4	19.2 23.0	25.6	26.5 31.2	27.2 32.1	29.1 34.1	29.6 34.7	29.8 35.0	29.8 35.0	35.0		35.2	30.1 35.2		
≥ 4500 ≥ 4000		23.8	30.2	29.3 33.4		36.4	38.8	39.4 44.4	39.7 44.6	39.7 44.6	44.6	39.0	39.9 44.8	39.9 44.8	44.8	44.7
≥ 3500 ≥ 3000		29.1 30.4	33.0 34.7	36.9 39.6		48.5	48.0 51.7	49.4 53.5	49.7 53.9	49.7 53.9		49.8 54.∩		49.9 54.1	54.1	54.2
≥ 2500 ≥ 2000		32.2 35.4	36.6 40.9		56.9		56.9 63.1	59.0 65.4	59.3 65.7	59.3 65.7	65.7	59.4 65.8	65.9	59.6	35.4	06.0
≥ 1800 ≥ 1500		36.6 38.4	44.2	49.1 52.0	63.2			68.2 73.1	68.5 73.4	73.4	73.5	73.6	73.7	73.7	73.7	68.9 73.9
≥ 1200		39.7 40.1	46.0	55.0 56.4	67.0	70.4	74.3	77.3 80.9		81.2	77.9 81.5	78.6	78.1	78.1 81.7	78.1 61.7	78.2
≥ 900 ≥ 800		40 · 1 40 · 2 40 • 3	47.0 47.3		69.9 70.7 72.1	74.3	77.9	83.4	82.1 84.0	82.2	84.4	84.5	84.6		82.7 84.6	34.7
≥ 700 ≥ 600		40.3		57.3 57.9	73.2		82.9	87.8	86.5	88.88		86.9 89.2	87.0	85.3	87.0 37.5	09.4
≥ 500 ≥ 400		40.4	47.7 47.7	50.2 58.4	74.6	78.8 79.4	84, 9 85 • 4		90.9	92.6		97.4	93.1	91.5 93.1	91.5 93.i	93.2
≥ 300 ≥ 200		40.4	47.7	58.4	74.9	79.9	85.8	92.7	94.3 95.0	94.5	94.9 96.3	96.5		95.1 96.9	95.1 97.0	97.1
≥ 100 ≥ 0		40.4		58.4 58.4	74.9	79.9 79.9	86.0	93.1	95•0 95•0	95.9 95.9	96.5 96.5	96.9	97.2			59.2 160.0

DATA PROCESSING BRANCH USAF ETAC AIR HEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

35032 RHCINGMAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0600-0800

CEILING							VIS	BILITY (STA	ATUTE MIL	ES						
EET	≥10	≥6	≥5	≥4	≥3	≥2%	≥ 2	≥1%	≥114	≥1	≥ 1,	≥':	≥ '3	≥5 16	≥'.	≥0
NO CEILING ≥ 20000		10.1	10.7	12.2	13.7 15.8	14.9 16.9		18.7	19.0 21.1	19.1 21.3	19.1	19•1 21•3	19.4 21.5	19.4 21.5	19.5	19.6
· ≥ 18090 ≥ 16000		11.1	12.0 12.0	13.9 13.9	15.8 15.8	16.9 16.9	15.7 18.7	20.7	21.1	21.3	21.3	21.3 21.3	21.5 21.5	21.5	21.6 21.6	21.7
≥ 14000 ₹ 12000		11.1	12.2	14.2	16.1	17.5 13.4		21.4	21.7 22.7	22.0 23.0	22.0	22.0 23.0	22.2	23.2		23.4
≥ 10000 ≥ 9000		12.2 12.5	13.4	16.1	18.5	19.8 20.6		24.0 25.0	24.3 25.3	24.5 25.6	24.5 25.6	24.5 25.6	25.8	24.8 25.8	24,9	25.0 >6.0
≥ 8000 ≥ 7000		12.8	14.2 15.0	17.8	19.0 20.6	21.1 22.2	23.2	25.5	25.8 27.0	27.3	26.0	20.0	26.2 27.5	26.2 27.5	26.4 27.6	26.5
≥ 6C00 ≥ 5000		14.4 16.6	16.0 18.0	18.9 21.3	21.7 24.5	23.6	29.6	28.3	28.6 32.7	32.9	28.8	28.° 32.°	29.1 33.1	29 1 37 1	29.2 33.2	33.3
≥ 4500 ≥ 4000		18.6 21.7	20.7	24.4	28.4	31.4 35.0	38.6		36.9 42.3	37.2 42.7	37.2 42.7	37.2 42.7	37.4 42.9	37.4 42.9	37.5 43.0	43.1
≥ 3500 ≥ 3000		24.2 25.9	26.8 28.7	33.3	36.7	40.0		46.7 50.7	47.2 51.1	47.5 51.6	47.7 51.8	47.7 51.8	48.0 52.0	52.0	48.1 52.1	2.3
≥ 2500 ≥ 2000		27.7 30.3	31.0 33.8	36.4 39.4	43.6	47.5 51.5	50.5 54.5	55 • 2 60 • 2	55.7 61.3	56.2 61.7	56.4	56.4 61.9	56.6 62.2	62.2	56.8 62.3	52.4
≥ 1800 ≥ 1500		31.5 33.4	35.1 37.3	44.1	49.4 53.7	53.8 58.8		62.7 68.2	69.4	64.2 69.8	70.0	70.0	70.3	70.3	70.4	
≥ 1200 ≥ 1000		35.1 35.4	40.1	47.0	58.3	65.9	69.5	73.9 76.6	75.0 77.7	75.5 78.2	75.7	75.7 76.4	75.9 78.6	73.9 78.6	76,0 78,7	78.8
≥ 900 ≥ 800		35.5 35.5	40.2	49.0	61.7	67.6	71.5	77.3	78.4 80.3	78.8 80.7	79.1 81.0	79.1 81.0	79.3	79.3 81.2	79.4 81.3	79.5
≥ 700 ≥ 600		35.6 35.6	40.5	49.3	64.0	68.5 70.3	72.7	80.7	82.1	86.4	83.1 80.7	85.1 86.8	83.3	87.0	83.4	87.3
≥ 500		35.6 35.6	40.5	49.9 50.0	65.0	71.5	76.0 76.6		87.8	91.2	97.5	91.9	89.9 92.1	89.9 92.1	90.0	92.3
≥ 300 ≥ 200		35.6	40.5	50.0	65.0	71.6		88.4	91.2		93.9	95.2	95.4		94.7	
≥ 100 ≥ 0	·	35.6	40.5	50.0 50.0	65.0 65.0	71.6	او تيدر ا	88.5	A .		95.2 95.4	95.5				98.4 100.0

0-14-5 (OL A) PREVIOUS EDITIONS OF

DATA PROCESSING BRANCH USAF ETAC AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY ST	ATUTE MIL	ES						
(FEET,	≥10	≥6	≥5	≥4	≥3	≥2'ז	≥ 2	≥1 ∻	≧l'.	≥1	≥ 14	≥',	≥ 1	≥5 16	≥ .	≥0
NG CEIUNG ≥ 2000S		3.8		10.9	13.3	14.7	16.3	18.0	18.3			18.9	13.8	18.9 25.3	-	
≥ 18000 ≥ 15000		11.4	12.0	15.3 15.3	18.2		21.7	23.9	24.4	24.6	24.8 24.8	25.7	25.0	25.3 25.3		
≥ 14000 ≥ 12000		12.3	12.3	15.6	18.5	20.3 21.1	22.8	24.2	24.7	24.9 26.1	25.1 26.4	25.4	25.4	25.6 26.8	25.6 26.8	25.6
≥ 10000 ≥ \$300		13.0 13.5	13.5	17.3 18.1	20.3	22.3	24.4	27.3	27.8	28.0 29.1	28.3 29.3	28.5	28.6	28.8 29.8		28.8
≥ 8000 ≥ 7000		14.0 14.1	14.5	18.5 16.7	22.1	24.5	20.5	29.4	29.9 30.6	30.8	30.4	30.4	30.7	30.9	30.9	30.9
≥ 6000 ≥ 5000		14.9	15.5	19.7 22.8	23.4	26.4	23.6	31.5	32.1	32.3	32.5 37.0	32.7	32.8	33.1 37.5	33.1	33.1
≥ 4500 ≥ 4000		19.1 21.0	20.3	24.6 27.0	29.8 33.0	33.1 36.8	35.6	38.9 43.1	39.4	39.7 44.2	39.9 44.5	40.1 44.8	40.2	40.4 45.1	40.4	40.4
≥ 3500 ≥ 3000		22.6	24.6 26.9	29.2 31.7	36.1 39.4	40.4	44.2	48.3 52.8	49.1	49.7 55.2	50.1 55.6	50.4	50.5 56.1	50.7 56.3	50.7 56.3	50.7
≥ 2500 ≥ 2000		26.6 27.9	29•2 30•9	34.4 26.3	42.3	47.0	51.3 54.5	56.2 60.4	57.9 62.2	50.6	59.2 63.6	59.6 63.0	59.7 64.0	59.9 64.2	59.9 64.2	9•9 64•2
≥ 1800 ≥ 1500		28.7 30.4	32.0 33.9	37.7 40.3	46.4		56.2	62.8 67.9	64.6 70.1	65.5	65.9 71.7	66.3 72.1	72.2	66.6 72.4	66.6 72.4	
≥ 1200 ≥ 1000		31.7 32.3	35.6 36.2	42.9 43.8	54.0 55.2	59.9 61.6	64.9 66.7	73.6 76.1	76.0 78.5	77.3 30.1	77.8 80.5	78.1 86.9	78.2 81.0	78.4 81.2	78.4 81.2	78.4 31.2
≥ 900 ≥ 800		32.3 32.4	36.2 36.3	44.0	55.5	62.9	67.3	77•1 78•5	79.6	81.1	81.6 83.1	81.9 83.6	82.0 83.7	82.2 83.9	82.2 83.9	52.2 53.9
≥ 700 ≥ 600		32.4 32.6	36.3 36.5	44.7 45.0	57.4 58.5	64.9	69.7 71.1	80.6 82.5	83.1 85.7	84.8 87.5	85.3 87.9	85.7 88.4	85.8 88.6	86.0	0.08 9.58	36.0 88.9
≥ 50C ≥ 400		32.6 32.6	36.5 36.5	45.2	58.9 59.0	65.3	71.6	83.8	87.3 88.5	91.2	89.9 91.8	90.6 93.0	90.9	91.3 93.7	91.3 93.7	91.3
≥ 300 ≥ 200		32,6 32,6	36.5	45.3	59.0 59.0	65.4	72.0	84.8		92.4	93.3 93.7	94.5 95.2	95.2 96.0	96.0 97.2	96.0 97.2	96.1 97.3
≥ 100 ≥ 0		32.6 32.6	36.5	45.3	59.0 59.0	65.4	72.0	84.9	89.2 89.2	92.7 92.7	93.7 93.7	95.5	96.1 96.4	97.5 98.2	97.5 98.7	98.1 100.0

TOTAL NUMBER OF OBSERVATIONS

DATA PROCESSING BRANCH USAF ETAC AIR WEATHER SERVICE/HAC

CEILING VERSUS VISIBILITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1200-1400

CEILING							VISI	BILITY (STA	ATUTE MILE	51						
FEFT	≥10	≥6	≥5	≥ 4	≥3	≥2 2	≥2	2112	≥1'.	≥1	≥ 14	≥ 5.	≥ 7	≥ 5 16	٤.	≥0
NO CEILING ≥ 20000		9.4	10.3	11.7 15.8	13.7	14.4	14.8	16.2	16.3	16.6	16.8	16.9	16.8	15.9	[23.0
≥ 18000 ≥ 16000		12.2	13.7	15.8 15.8	18.8	19.7	20.5	22.0	22.1	22.6	22.9	22.9	22.9	23.0	23.0	23.0
≥ 14000 ≥ 12000		12.8		16.6	19.7	20.6	21.4	22.9	23.0	23.5	23.8	23.8	23.8	23.9	23.9	23.9
≥ 10000 ≥ 9000		14.5	16.0	19.0	23.3	24.4	25.3 26.6	26.8	27.1	27.6 29.1	27.9	27.0	27.9	28.1	28.1 29.5	28.1 29.5
≥ 8000 ≥ 7000		15.8	17.4 17.6	20.8	25.4	26.6	27.5	29.1	29.4 30.2	30.1	30.4	30.6	30.6	30.7 31.5	30.7 31.5	30.7
≥ 6000 ≥ 5000		16.5	18.5	22.1	27.7	29.0 32.8	30.1	31.8	32.4	33.2 37.3	33.5	33.4	33.0	33.8	33.8	33.8 37.9
≥ 4500 ≥ 4000		19.8	7 = 1	26.0	32.7	34.1	35.5	37.4	38.0 43.6	38.9	39.2 45.0	39.3	39.3 45.2	39.5 45.3	39.5	39.5 45.3
≥ 3500 ≥ 3000		24.5		31.6 37.2	40.4	42.4	44.0 51.1	46.6 54.0	47.7 55.4	48.9 56.8	49.3 57.1	49.4 57.2	49.4 57.2	49.5 57.4	49.5 57.4	49.5 57.4
≥ 2500 ≥ 2000		31.5		40.9	1	53.7 56.7	55.8 59.3	59.3 63.3	50.8 65.0	62.4	62.7 66.9	62.P 67.0	62.5		62.9 67.2	52.9 57.2
≥ 1800 ≥ 1500		35.1 36.1	39.0 40.1	45.5 47.8		59.6 62.7	62.3 65.7	66.2 70.7	68.0 72.4	69.6 74.3		70.1 74.9	70.1 74.9	70.2 75.1	70.2 75.1	70.2 75.1
≥ 1200 ≥ 1000		37.5 38.0		50.7 51.8	62.9	66.9	70.5	75.9 78.9	77.8 80.7	79.7 82.8	80.3 83.6	80.4 83.8	80.4 83.8		80.6 84.0	30.5 34.0
≥ 900 ≥ 800		38.0	42.6	52.0 52.2	65.6 66.8	69.6 70.8	73.8 75.4	79.9 82.0	81.8 84.2	83.8		84.9 87.5	85.1 87.6	85.3 87.8	85.3 87.8	55.3 37.8
≥ 700 ≥ 600		38.0	42.6 42.6	53.2 53.2	68.3 68.4	72.3	76.9 77.1	84.7	86.4	89.3 90.3		90.4	90.5	90.8	90.8	90.8 92.2
≥ 500 ≥ 400		38.0	42.6 42.6	53.4 53.4	68.8 68.8		77.8 78.0		88.8			93.6 95.7	93.8 96.0		94.2 96.4	94.2 96.4
≥ 300 ≥ 200		38.0 38.0	42.6	53.4 53.4		72.9	78.0 78.0	86.7 86.7	89.6	94.1 94.2	95.2 95.3	96.4	96.8	97.1	97.1 97.7	97.1 97.7
≥ 100 ≥ 0		38.0		53.4 53.4		1						96.5 90.6	96.9 97.3			98.5 100.0

TOTAL NUMBER OF OBSERVATIONS

DATA PROCESSING BRANCH USAF ETAC AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERHANY/FRANKFURT 57-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VIS	BILITY STA	ATUTE MILE	 S						
(FEET)	≥10	≥6	≥5	≥4	≥3	≥2½	≥ 2	≥1.	≥1'4	≥1	≥ ځ	€′≤	≥ ,	≥5 16	≥ .	≥0
NO CEILING ≥ 20000		10.9		13.8 17.9		15.9 20.8	16.7 22.3	18.7 24.1	18.5 24.5	18.8 24.9	19.0 25.3	19.0 25.3	19.0 25.3	25.4		19.2 _5.4
≥ 18000 ≥ 16000	J	14.5	15.7 15.7	17.9 17.9	19.7 19.7	20.8	22.3	24.1	24.5	24.9	25.3 25.3	25.7	25.3 25.3	27.4	25.4	25.4 25.4
≥ 14000 ≥ 12000		14.7 15.5	15.0 16.8	18.3 19.4	20.0	21.3	24.9	24.5 26.8	24.9	25.4	25.7 28.1	25.7	25.7 28.1	25.8 23.2	25.8 28.2	25.8 28.2
≥ 10000		16.7		21.5	23.9		27.3	29.3 30.1	29.7 30.5	30.2	30.5	30.5	30.5	30.6	31.4	31.4
≥ 8000 ≥ 7000		17.3			25.2		28.8		31.4	31.8	32.2 32.9	32.9	32.2	33.0	32.3 33.0	32.3
≥ 6000 ≥ 5000		18.0		23.7	27.1 30.2	29.2 32.4	30.8 34.5	33.2 37.1	33.6 37.5	34.2 38.1	34.5	38.4	38.4	34.6	38.5	34.6 28.5
≥ 4500 ≥ 4000 ≥ 3500		21.3 24.8 27.4	23.7 28.1 31.1	27.8 32.3	32.2	34.5	36.6 42.2	39.2 45.4	39.6 45.9	40.2	40.5 47.0 51.8	40.5 47.0 51.8	40.5 47.0 51.8	40.5 47.1 51.9	40.6 47.1 51.9	40.6 47.1 31.9
≥ 3000		30.5		35.7 39.6	41.2 46.2 50.4	44.1 49.9	52.8 57.2	50.2 56.8	50.7 57.6	51.4 58.4	58.7	58.7	58.7	58.8	58.8	38.8 u3.6
≥ 2500 ≥ 2000 ≥ 1800		35.3 36.2	40.4	47.1	55.0	58.8	62.7	61.4 67.1	68.4	69.5	69.8	69.A	69.8		69.9	39.9
≥ 1500		37.5	43.5	51.3 53.5	60.4	64,3	68.4 72.4	73.7 78.5	75.2	75.5	76.9	76.9	76.9	77.1	77.1	77.1 82.1
≥ 1000		38.6	45.4	54.7	65.8	70.3	75.8	83.1	83.9	85.3		85.9 87.0	85.9 87.0	86.0		36.0 87.1
≥ 890		38.6	45.4	55.5 55.9	67.0	71.7	78.0 79.1	85.0	87.0	89.0 90.4	89.5	89.5	89.5 91.0	89.6		
≥ 600		38.8	45.7	56.1 56.1	68.9	74.2	80.5 80.6	88.1	90.4	92.5	93.1	93.1	93.1	93.2	93.2	33.2
≥ 400		38.8	45.7	56.1 56.1	68.9	74.2	80.7	1	92.1 92.3	94.9	95.8	96.0	96.0	96.2	96.2	96.2
≥ 200 ≥ 100		38.8	45.7	56.1 56.1	68.9	74.2	80.8		92.4	96.0	97.4	97.9	97.9 98.0	98.4	98.4	38.4
≥ 0	Ĺ	38.8		56.1			170				97.4		98.3			100.0

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

DEC.

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1500-2000

CEILING							VIS	BILITY (ST	ATUTE MILI	ES:						
FEET	≥10	≥6	≥5	≥4	≥3	≥2 2	≥2	≥1.7	≥1'.	≥1	≥ ,•	>,•	≥ ?	≥ 5 16	≥.	≥0
NO CEILING ≥ 20000		12.9	13.7		24.3	22.4 25.6			24.2 27.5			24.4	27.5		28.0	28.2
≥ 18000 ≥ 16000			15.9 15.9	20.3	24.3	25.6 25.6		27.1	27.5 27.5	27.7	27.7 27.7	27.7 27.7	27.9 27.9		28.0	26.2
≥ 14000 ≥ 12000		15.5		22.0	26.3	26.4	28.3	27.9	28.3	29.9	29.9	23.5	28.7	28.9 30.1	28.8 30.1	_20.4
≥ 10000 ≥ 9000		16.6 17.2	17.7			28.8	30.7	30.4 31.6	30.8 32.1	32.3			31.2 32.4	31.3 32.5		32.6
≥ 8000 ≥ 7000		17.6 18.5	18.9	25.2		30.6 31.8	32.5	32.2 33.4	32.6 33.9	34.1	32.9 34.1	34.1	33.0	34.4	33.1 34.4	
≥ 6000 ≥ 5000		20.1	21.8	29.7	35.2	33.9 36.8		38.6	36.0 39.0	39.3		36.7		36.4 39.5	35.4 39.5	39.7
≥ 4500 ≥ 4000		26.8	26.3	34.6	40.6	39.8 42.4	43.3	45.0	42.7	45.7	45.7	42.9	43.0 45.8	43.2 45.9	43.2 45.9	46.1
≥ 3500 ≥ 3000		29.3	31.6 34.2	41.6		46.8 51.4				55.9	50.2 55.9		50.3 56.1	50.5 56.2	50.5 56.2	26.4
≥ 2500 ≥ 2000		37.4	37.8 41.6	51.5	60.4		64.8	60.6		68.8	68.8	68.9		69.1	61.9 69.1	9•3
≥ 1800 ≥ 1500		38.6 40.4	42.8 45.5	56.6	66.9	65.3 70.3	72.3	75.5	76.4	76.8	76.8		76.9	77.1	77.1	77.3
≥ 1200 ≥ 1000		41.7	47.5	60.0	72.7	76.5	79.1	83.7	84.8	85.3	85.3	85.3	85.4	85.5	82.1 85.5	ა5.7
≥ 900 ≥ 800		42.0 42.2 42.2	47.6 47.8 48.1	61.0	74.4	73.3	81.6	86.4	87.7	88.1	88.1	86.4	88.2	88.4	98.4	88.6
≥ 700 ≥ 600 ≥ 500		42.2	48.1		75.1 76.1 76.8	79.5 80.5	84.1	89.4		91.3	91.3	90.0 91.3 93.5	91.4			91.8
≥ 500 ≥ 400 ≥ 300		42.2	48.1		76.8	81.7	85.7	91.9	93.0 93.7 94.5	94.5	94.5	94.5	94.6 96.8	94.7	94.7	95∙0
≥ 200		42.2		62.1	76.8	1	86.0	92.5		97.0	97.4	1	97.6	97,7	97.7	
≥ 100 ≥ 0		42.2				81.7		92.5							_ •	100.0

DATA PROCESSING BRANCH USAF ETAC AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

RHEIN-MAIN APT GERMANY/FRANKFUOT 67-76

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)		·					VI\$	IBILITY ST	ATUTE MIL	ES	*					
	≥10	≥6	≥5	≥4	≥3	≥27	≥2	≥1 2	≥1.	≥1	≥ 14	≥'₁	≥ ;	≥5 16	≥ .	≥0
NO CEILING ≥ 20000		12.2	13.6			21.9		_	23.0 25.3	_	23.b 25.5	23.8	23.8			24.0
≥ 18000 ≥ 16000		13.2		18.4 18.4		24.1 24.1	24.4	25.1 25.1	25.8 25.8	25.9	25.9	25.0		26.0	26.1	25.1
≥ 14000 ≥ 12000		13.3 13.8	14.8 15.3		23.2 23.8	24.3	24.7	25.9	26.0 26.6	26.1	26.1	26.1	26.1	26.2	26,4	26.4
≥ 10000 ≥ 9000		14.9 15.6		20.8		27.1	27.8 25.7		29.2 30.1	29.3 30.2	29.3	29.3	29.3	29.4 30.3	29.5	
≥ 8000 ≥ 7000		16.2 17.2		22.3	27.4	28.8	29.5 30.8	30.2 31.4	30.9		31.0	31.0	31.0	31.1	31.2	31.2 2.5
≥ 6000 ≥ 5000		19.2 20.8	21.4	26.2 28.1	31.4	35.4	33.6	34.3		35.2	35.2	35.2	2. د 3	35.3 38.5	35.4 38.6	35.4
≥ 4500 ≥ 4000		23.2	25.6	30.9	37.Q	38.8			41.6	41.7	41.7	41.	41.7	41.9	42.0	,2.0 ,5.1
≥ 3500 ≥ 3000		28.3 31.1	30.8	37.2	44.6	46.7	48.1 53.2	48.9	44.7	49.8	49.9	49.6		40.9	50.0 56.0	50.0 6.0
≥ 2500 ≥ 2000		33.6 37.6	36.7 40.8	44.1	53.1	55.8	57.8		60.4	65.5	60.0	60.5		50.7 68.8	60.7	60.9
≥ 1800 ≥ 1550		39.4	42.9	51.5 55.7	63.0	66.5	68.6	70.8	72.1	72.5	72.3	72.2	72.3	72.4	72.5	72.5
≥ 1200 ≥ 1000		43.0	47.4	57.1 58.3	69.9	74.4	76.9	79.1	80.8	81.7	81.2	81.7	51.2	81.3	51.4 85.0	31.4 5.0
≥ 90% ≥ 800		43.4	47.6	58.6 59.3	72.2	77.3	80.2 82.5	83.0 85.4	85.1	35.6 88.2	35.6 88.2	85.6	85.6 88.2	85.7	85.9	85.9
≥ 700 ≥ 600		43.7	47.9	59.4 59.3	74.0	70.9 80.4	83.5	86.9	90.4	119,5 71.0	89.5 91.0	91.0	89.5 91.0	89.6	84.7 91.2	
≥ 500 ≥ 400		43.7	48.0 48.0	60.2	75.5	31.8 82.2	86.1	90.5	92.8	93.3 94.6	93.3	94.4	93.3	94.4	93.6	23.6
≥ 300 ≥ 200		43.7	48.0 48.0	60.2	75.8 75.8	82.4	87.0	92.1	94.9	96.4	96.8	96.8	96.8	90.9	77.1 27.9	97.1 97.9
≥ 100 ≥ 0		43.7	48.0	60.2	75.5 75.5	82.4 82.4	87.0 87.0		95.4	97.1		98.1		98.3	79.1	99.3

SKY COVER SUMMAR'

The individual increments formerly reported in total sky cover of airways observations are no longer available from the source data from Jan 71 and later. Increments reported after 1970 are clear, scattered, broken, overcast, partial obscuration and obscured (0, 3, 9, or 10). Therefore, the sky cover summary for this station is limited to the period through Dec 70.

PART D

SKY COVER

This summary is prepared from hourly observations and is a percentage frequency distribution of total sky cover by tenths, plus mean sky cover, and total number of observations. It is presented in two tables as follows:

- 1. By month and annual all hours and all years combined.
- 2. By month by standard 3-hour groups.
- NOTE: #1: Sky cover (total cloud amount) was not reported by U. S. Services until mid 1945. Data, when available, were punched for Air Force stations beginning in 1946, but were not available for Navy stations until 1948 or 1949. Weather Bureau stations recorded total cloud amount in remarks beginning sometime in 1945, but few stations have punched data prior to 1948. This summary will, of course, be limited to period of available data.
- NOTE: # 2: Some sources of punched data used for this summary report cloud amounts in oktas. These have been converted to tenths prior to summarizing, and notation is made on the form to indicate that data were originally reported in oktas. The manner of conversion is given below:

NTHS
0
1
3
4
5 6
6
8
9
10

SKY COVER

RHEIN-MAIN APT GERMANY/FRANKFURT

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS				PERCENTAGE	FREQUENC	Y OF TENTH	S OF TOTAL	SKY COVER	1			MEAN TENTHS OF	TOTAL NO OF
	(L S (.)	0	1	2	3	4	5	6	7	8	9	10	SKY COVER	OBS
JAN	ALL	5.9	2.0		2.7	2.7	2.5	3.3		6.0	21.8	53.3	8.3	976ع
Fga		12.2	4.4		4.1	3.6	4.0	5.3		8.6	18.3	39.7	7.1	27.2
MAR		11.0	5.2		4.8	6.0	4.5	0.6		8.9	20.2	32.2	6.8	2976
APR		12.3	7.7		6.4	6.4	5.3	8.2		10.5	19.1	24.3	0.3	2880
MAY		4.9	6.9		7.0	7.0	6.1	9.6		13.1	24.2	21.3	6.8	2976
JUN		8.4	9.6		7.1	7.1	7.6	8.5		13.0	20.1	18.0	0.2	∠860
JUL		11.5	11.1		8.4	8.9	6.9	8.4		12.0	21.4	11.4	5.6	2976
AUG		۶,5	8.6		6.7	8.0	6.6	8.4		12.0	20.7	19.6	6.2	2976
SEP		14.9	8.7		7.3	7.:	5.7	7.0		10.0	18.2	21.1	5.8	2880
ncT		10-1	4.4		4.9	4.2	4.9	4.6		8.9	21.7	36.1	7.2	976ے
VON		9,5	4.4		4.0	4.1	3.0	3.0		6.7	18.9	40.6	7.6	ر880
DEC		7.6	2.4		3.4	2.7	2.2	3.1		5.2	20.5	53.0	8.1	2976
101	'ALS	9.8	6.3		5.6	5.7	4.9	6.4		9.6	20.4	31.4	5.8	ار 5-

SKY COVER

RHEIN-MAIN OT GERMANY/FRANKFURT

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS				PERCENTAGE	FREQUENC	Y OF TENTH	S OF TOTAL	SKY COVE	₹			MEAN TENTHS OF	TOTAL NO OF
moi11ii	(L.S T)	0	1	2	3	4	5	6	7	8	9	10	SKY COVER	OBS
JAN	00-02	9.9	1,6		2.4	4.8	2,2	2.7		2.2	12.6	61.6	8.0	37
	03-05	9.4	1.1		2.4	. ʁ	• 8	2.7		3.8	15.9	63.2	8,4	37
·	06-08	3.8	2.2		2.7	2.2	2.7	2.4		5.6	22:0	56.5	8.5	37
	09-11	3.0	2.2		ه.	3.0	2.2	. 8		8.6	31.5	48.1	8.7	37
	12-14	1.6	2.2		2.4	2.2	3.8	4.3		8.6	28.0	47.0	8.5	37
	15-17	2.2	2.4		1.9	4.0	4.0	5.6		7.3	28.2	44.4	8.3	37
	18-20	6.7	1.9		4.8	3.2	2.7	4.6		5.4	20.7	50.0	8.0	37
	21-23	10.2	2.4		4.0	1.6	1.9	3.0		6.2	15.1	55.6	7.9	37
													-	
то	TALS	5.9	2.0		2.7	2.7	2.5	3.3		6.0	21.8	53.3	8.3	297

FORM 0-9-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE. USAFETAC

SKY COVER

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RHEIN-MAIN APT GERMANY/FRANKFURT

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STATION NAME

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS				PERCENTAG	FREQUENC	Y OF TENTH	S OF TOTAL	SKY COYE	R			MEAN TENTHS OF	TOTAL NO OF
	(L S.T.)	0	1	2	3	4	5	6	7	8	9	10	SKY COVER	OBS
FEB	00-02	19.8	4.7		6 2	2.9	1.8	5.3		5.3	14.7	39.2	6.4	3.
	03-05	19.8	2.1		2.9	5.3	2.1	4.4		7.7	10.8	38.9	0.7	3
	06-0ª	7.4	5.6	·	2.9	3.8	3.8	5.3		6.8	23.0	41.3	7.6	3
	09-11	7.4	5.6		2.1	2.4	5.0	5.3		11.5	21.5	39.2	7.6	3
	12-14	5.6	4.7		2.9	2.4	4.1	7.7		12.7	20.4	39.5	7.7	3
	15-17	5.6	5.9		1.5	4.7	5.6	5.6		10.3	23.0	37.8	7.6	3
	18-20	12.7	3.2		6.8	4.1	5.3	۶,6		5.3	15.6	41.3	7.0	3
	21-23	18.9	3.2		7.1	3.2	4.1	2.9		8.8	11.5	40.1	6.5	3
101	FALS	12.2	4.4		4.1	-3.6	4.0	5.3		8.6	18.3	39.7	7.1	27

USAFETAC FORM SUL 44 0-9-5 (OL: A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETZ.

SKY COVER

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS				PERCENTAG	E FREQUENC	Y OF TENTH	S OF TOTAL	SKY COVE	R			MEAN TENTHS OF	TOTAL NO OF
MONTH	(L.S T)	0	1	2	3	4	5	6	7	8	9	10	SKY COVER	OBS
MAR	00-02	17.2	5.4		4.8	5.9	3.4	7.5		5.1	15.9	34.9	5.4	372
	03-05	17.7	3.8		3.0	5.1	1.9	4.0		7.5	16.1	40.9	5.8	372
	06-08	5.4	6.5		4.8	5.9	4.5	4.8		7.5	22.8	37.6	7.4	372
	09-11	7.5	5.6		3.5	4.0	4.6	8.3		11.3	20.2	34.9	7.3	377
	12-14	5.6	4.8		3.2	5.4	6.7	8.6		12.6	26.1	26.9	7.3	372
	15-17	5.6	4.6		4.3	10.2	5.9	7.3		13.2	22.8	26.1	7.0	372
	18-20	9.9	5.6		7.5	8.6	7.0	7.0		9.4	19.4	25.5	6.4	372
	21-23	18.8	5.6	<u> </u>	7.0	7,8	2.2	5.4		4.8	18.0	30.4	0.1	373
10	TALS	11.0	5.2		4.8	6.6	4.5	6.6		8.9	20.2	32.2	6.8	2970

FORM 0-9-5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

SKY COVER

35032 RHEIN-MAIN APT GERMANY/FRANKFURT

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS				PERCENTAGE	FREQUENC	Y OF TENTH	IS OF TOTAL	SKY COVE	R			MEAN TENTHS OF	TOTAL NO OF
MONIN	(L.S.T.)	0	1	2	3	4	5	6	7	8	9	10	SKY COVER	085
APR	00-02	20.8	9.7		6.7	8.1	3.6	5.6		6.4	15.6	23.6	5.4	36
	03-05	16.7	8.3		5.8	5.0	2.5	5.6		7.2	19.7	29.2	0.2	36
	06-08	12.5	9.2		5.8	4.7	3.6	5.3		7.5	20.6	30.8	6.5	30
	09-11	7.8	8.3		6.4	7.5	5.0	10.3		11.4	17.5	25.3	6.5	36
	12-14	5.8	8.3		4.4	5.0	8.9	11.1		18.1	17.5	20.8	0.6	30
	15-17	6.1	5.8		8.3	5.8	5.0	14.7		14.2	18.6	21.4	6.6	30
	18-20	8.3	5.8		5.6	8.1	7.8	8.9	·····	10.0	23.9	21.7	6.6	3
	21-23	20.0	6.1	· 	8.1	6.7	5.6	4.4		8.9	19.4	20.8	5.7	3(
											<u> </u>			
10	TALS	12.3	7.7		6.4	6.4	5.3	8.2		10.5	19.1	24.3	6.3	288

USAFETAC TUL 44 0-0-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

SKY COVER

35032 RHEIN-MAIN APT GERMANY/FRANKFURT

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS				PERCENTAGE	FREQUENC	Y OF TENTH	IS OF TOTAL	SKY COVE	R			MEAN TENTHS OF	TOTAL NO OF
	(L.S.T)	0	1	2	3	4	5	6	7	8	9	10	SKY COVER	OBS
MAY	00-02	15.1	8.3		9.7	6.2	4.8	5.1		9.1	10.9	24.7	5.9	37
 	03-05	6.2	8.3		6.7	8.1	5.9	6.7		7.8	21.2	29.0	6.7	37
	06-08	4.6	8.3		5.4	6.2	5.1	8.1		15.6	22.6	24.2	6.9	37
	09-11	•5	7.8		4.0	6.7	7.8	12.4		16.9	25.3	17.7	7.0	37
	12-14		2.7		5.1	9.4	6.5	12.6		19.6	27.4	16.7	7.3	37
	15-17		5.1		6.5	5.4	6.7	13.2		13.4	31.7	18.0	7.3	37
	18-20	1.6	6.5		5.0	7.0	4.6	11.3		14.5	30.4	18.3	7.2	37
<u> </u>	21-23	11.0	8.1		11.8	7.0	7.3	7.5		7.3	18.3	21.8	5.9	37
for	TALS	4.9	6.9		7.0	7.0	6.1	9•6		13.1	24.2	21.3	6.8	297

USAFETAC FORM 0-9-5 (O', A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS				PERCENTAG	E FREQUENC	Y OF TENT	IS OF TOTAL	SKY COVE	R			MEAN TENTHS OF	TOTAL NO OF
MON16	(L.S T.)	0	1	2	3	4	5	6	7	8	9	10	SKY COVER	085
JUN	00-02	23.6	8.9		8.1	6.4	6.4	4.2		9.2	14.7	18.6	5.1	36
	03-05	10.0	13.6		7.5	4.2	5.8	7.5		13.1	20.0	17.8	5.9	30
	06-08	11.4	11.9		8.3	5.6	7.5	6.7		11.7	19.2	17.8	5.8	36
	09-11	3.6	10.6		6.9	7.8	8.1	8.6		13.3	22.5	18.6	6.5	36
	12-14	1.4	4.7		5∙8	8.9	11.4	14.7		13.9	20.0	19.2	5.9	36
	15-17	1.7	5.8		8-1	8.1	8.3	9.7		16.1	25.0	17.2	6.9	36
	18-20	3.3	10.8		3.6	7.8	7.2	9.7		13.6	25.3	18.6	6.7	36
	21-23	11.7	10.6		8.1	7.8	6.1	6.9		13.3	14.4	21.1	5.9	36
										<u> </u>			ļ 	
										<u> </u>				
														
101	TALS	8.4	9.6		7.1	7.1	7.6	8.5		13.0	20.1	18.6	6.2	288

USAFETAC FORM 0-9-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

SKY COVER

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PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER MEAN TOTAL HOURS (L.S.T.) NO OF HTHOM SE COVER JUL 8.1 9.7 9.7 5.4 9.1 9.9 11.0 4.1 372 00-02 30.6 6.5 03-05 12.9 7.3 23.7 13.2 372 12.1 8.1 4.6 7.0 10.5 3.0 372 12.1 25.0 5.9 06-08 11.6 4.8 7.0 10.7 23.9 372 09-11 12.6 9.1 6,5 6.7 14.2 6.0 8.6 5.4 12.7 24.2 372 12-14 3.2 9.9 5.6 9.4 10.8 11.3 15.1 9.4 6.3 372 4.3 8.3 8.9 10. 24.5 5.0 15-17 10.2 7.3 7.8 372 18-20 4.6 13.4 9.7 13.2 23.7 7.5 372 21-23 16.7 12.1 10.5 10.6 15.9 TOTALS 6.9 2976

USAFETAC 10.4 0-9-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER HOURS MONTH TENTHS OF NO OF (L.S.T.) 0 10 11.6 AUG 00-02 24.7 7.5 5.0 23.4 5.2 6.5 8.9 7.0 14.0 10.2 17.2 373 03-05 10.2 0.5 06-08 8.9 11.8 372 4.8 27.2 26.7 09-11 5.4 7.3 7.3 7.5 7.8 22.8 17.5 6.5 372 11.3 9.9 • 3 5.4 372 12-14 8.6 27.4 10.8 5.6 15-17 9.9 17.7 21.2 :7.2 372 12.4 7.0 18-20 4.8 5.1 8.6 9.7 20.7 6.8 372 15.9 <u>5.</u>8 23.7 372 10.8 20.7 8.6 8.0

USAFET/C 10-44 0-4-5- (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSCIETE.

SKY COVER

RHEIN-MAIN APT GERMANY/FRANKFUPT

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HONTH	HOURS				PERCENTAG	E FREQUENC	Y OF TENTH	S OF TOTAL	SKY COVE	t .			MEAN TENTHS OF	TOTAL NO OF
	(L.S.T.)	0	:-	2	3	4	5	6	7	8	9	10	SKY COVER	085
SEP	00-02	30.8	7.8		8.3	4.2	3.3	6.1		6.1	12.5	20.8	4.7	360
	03-05	24.4	6.4		5.8	4.7	6.9	9.4		6.9	13.9	21.4	5.3	360
	06-08	8.9	10.0		7.2	7.8	4.7	6.9		8.6	18.1	27.8	5.4	360
	09-11	9.4	10.3		4.7	6.1	3.6	5.9		12.8	20.3	23.9	0.4	360
	12-14	5.3	8.1		5.6	8.1	8.6	6.7		15.3	25.6	10.9	6.6	360
	15-17	3.1	11.7		7.5	11.4	5.3	7.5		11.4	26.1	16.1	6.4	360
	18-20	11.4	7.8		10.8	7.2	7.5	7.2	- <u></u>	10.3	18.1	19.7	5.9	360
	21-23	26.1	7.8		8.1	7,5	5.8	3.6		8.6	10.6	21.9	5.0	360
														
TO	TALS	14.9	8.7		7.3	~ 1	5.7	7.0		10.0	18.2	21.1	5.8	288(

SKY COVER

35032 STATION

RHEIN-MAIN APT GERMANY/FRANKFUPT

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HINOM	HOURS				PERCENTAG	E FREQUENC	Y OF TENTH	IS CIF TOTAL	SKY COVER	}			MEAN TENTHS OF	TOTAL NO OF
MONIA	(L.S T.)	0	1	2	3	4	5	6	7	8	9	10	SKY COVER	OBS
ncT	00-02	15.9	4.6		5.9	2.4	4.0	3.5		7.3	17.2	39.2	6.8	372
	03-05	13.7	4.6		4.0	2.4	3.2	3.8		6.5	17.5	44.4	7.2	372
	06-08	5.1	4.8		4.3	2.4	3.2	4.3		8.9	25.5	41.4	7.8	372
	09-11	6.7	2.7		3.0	5.1	4.6	4.6		9.4	26.6	37.4	7.7	372
	12-14	6.2	4.0		1,9	4.3	9.9	5.9		13.2	20.4	34.1	7.4	372
	15-17	6.7	4.8		4.8	6.2	5.1	5.6		9.7	28.2	28.8	7.2	372
	18-20	12.1	4.8		8.1	5.9	6.7	5.9		8.9	17.2	30.4	0.5	372
	21-23	14.2	4.8		7.3	5.1	2.7	5.1	 	6.7	20.7	33.3	6.6	372
										 				
10	TALS	10.1	4.4		4.9	4.2	4.9	4.8		8.8	21.7	36.1	7.2	2976

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

SKY COVER

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RHEIN-MAIN APT GERMANY/FRANKFUPT

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS				PERCENTAGE	FREQUENC	Y OF TENTH	S OF TOTAL	SKY COVER	1			MEAN TENTHS OF	TOTAL NO OF
	(L S.T.)	0	1	2	3	4	5	6	7	8	۰	10	SKY COVER	085
NOV	00-02	13.1	4.4		5.8	3.1	3.6	3.1		3.3	16.9	46.7	7.2	360
	03-05	15.3	2.2		4.4	2.8	1.9	2.2		3.6	17.2	50.3	7.4	360
	06-08	4.4	5.6		3.1	5.0	1.9	2.8		5.8	20.3	51.1	8.0	360
	09-11	4.4	5.0		1.9	1.9	1.7	2.2		8.3	21.1	53.3	u.3	360
	12-14	3.3	3.1		1.7	5.6	4.4	2.6		7.2	26.7	45.3	3,2	369
	15-17	3.1	4.7		6.4	4.4	3.9	3.6		11.4	20.8	41.7	7.8	360
	18-20	14.4	4.7		4.2	5.3	3.9	4.4		6.7	16.9	39.4	6.8	360
	21-23	16.1	5.6		4.4	5.0	2.5	3.1		7.5	11.1	44.7	6,8	360
														
TO	TALS	9.3	4.4		4.0	4.1	3. G	3.0		6.7	18.9	46.6	7.6	238(

USAFETAC FORM 0-9-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OSSOLETE.

SKY COVER

RHEIN-MAIN APT GERMANY/FRANKFURT

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS				PERCENTAGE	FREQUENC	Y OF TENTH	S OF TOTAL	SKY COVER	₹			MEAN TENTHS OF	TOTAL NO OF
	(L S.T.)	0	1	2	3	4	5	6	7	8	9	10	SKY COVER	085
DEC	20-02	14.2	1.6		3.5	2.7	1.1	3.5		4.0	13.4	55.4	7.0	37
 -	03-05	11.3	1.1		2.4	3.2	1.5	3.5		4.3	15.9	57.0	8.0	37
	06-08	4.3	4.0		3.0	1.6	2.7	2.4		4.8	19.1	58.1	8.4	37
-	09-11	4.0	4.8		3.8	1.6	1.9	3.6		5.9	25.0	49.2	8.2	37
	12-14	2.4	3.0		2.7	2.7	2.4	3.5		5.4	30.9	47.0	8.5	37
	15-17	3.0	•3		4.0	5.6	1.9	3.8		6.7	27.7	46.5	8.3	37
 .	18-20	9.9	1.6		4.6	2.2	4.0	3.0	 	5.6	15.6	53.5	7.8	37
	21-23	11.0	2.4		3,5	2.2	1.9	1.3		4.6	16.7	56.5	7.9	37
TO:	TALS	7.6	2.4		3.4	2.7	2.2	3.1		5.2	20.5	53.0	8.1	297

U S AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER

PART E

PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and wet-bulb temperatures, dew points, and relative humidity. The order and manner of presentations follows:

- Cumulative percentage frequency of occurrence derived from daily observations and presented by month
 and annual for all years combined. These tabulations provide the cumulative percentage frequency to
 tenths of temperature by 5-degree Fahrenheit increments, plus mean temperature, standard deviations, and
 total number of observations in three separate tables as follows:
 - a. Daily maximum temperatures
 - b. Daily minimum temperatures
 - c. Daily mean temperatures

NOTE: Beginning in January 1964, daily maximum and minimum temperatures are routinely selected from hourly observations recorded on surface observing forms or from automated data collections for all Air Force operated stations. For those stations observing less than 24 hours per day, and where maximum and minimum temperatures are required but not recorded, these are also selected from hourly data from as early as January 1949 and later. Please refer to notations on summary pages and Station fistory for further information on reporting practices of individual stations.

- 2. Extreme values derived from daily observations with the extreme value selected for each year and month of record available. An annual (ALL MONTHS) value is selected when all months for a year have valid extremes. Means and standard deviations are computed for months and annual when four or more values are present for any column. Two tables of daily extremes are prepared:
 - a. Extreme maximum temperature
 - b. Extreme minimum temperature

MOTE: The following symbols are used in the extreme data blocks:

- (1) * indicates the extreme was selected from a month with one or more days missing.
- (2) # indicates the extreme was selected from a month in which hourly temperatures were available for less than 2th hours for at least one day in the month.

Continued on Reverse

3. Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature.

This tabulation is derived from bourly observations and is presented by month and annual, all hours and years combined. The following information is provided:

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a. The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb depression in 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature spread vertically. Also provided for each of the dry-bulb intervals is the percentage of observations with dry-bulb and wet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation table, which may be continued on several pages.

NOTE: A percentage frequency in this table of ".0" represents one or more occurrences amounting to less than .05 percent.

- . Statistical data for the individual elements of relative humidity, any-bulb, wet-bulb, and dev-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares (ΣX^2) , sums of values (ΣX) , means (X), and standard deviations (Gx). The number of observations used in the computation for each element is also shown.
- c. At the lower right of the form are given the mean number of hours of occurrence for six ranges of dry-bulb, wet-bulb, and dew-point to personal total number of hours possible in the period represented. Mean number of nours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulation by month.
 - NOTE: Wet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine methods for observations recorded during these periods. All values of dev-point temperature and relative humidity are with respect to water, unless otherwise indicated.
- 4. "same up standard deviations These tabulations are derived from hourly observations and present the mean, star land deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years combined are presented in the following three tables; DRY-BULB TEMPERATURE, WFT-BULB TEMPERATURE, and DEW-PCINT TEMPERATURE.
- 5. Cimulative percentage frequency of occurrence of relative humidity This summary is derived from hourly observations and precents the cumulative percentage frequency of occurrence of relative humidity by increments of 10% clauses, plus the mean relative humidity and total number of observations in two tables.
 - a. Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.
 - t. Table 2 is prepared by month by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All years are also combined for this summary.

PATA PRICISSING PRANCE USAF ETAC AIR PEATHER SERVICE/MAC 35032 REIN-MAIN APT SERMANY/FRANKEULT STATION STATION NAME

DAILY TEMPERATURES

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM DAILY OBSERVATIONS)

MURIXAM

	TEMP (°F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
≥	100							• 2						.0
≥	95	1					. 5	2,9	.6					.3
≥	90						3.4	6.7	4.3	1.5				1.3 3.7
≥ _	85				.2	1.2	9.9	17.4	11.7	4.0				3.7
≥	60				1.3	8.5	21.4	33.0	23.9	9.1	,1		_	8.1
≥	75				5,9	20.9	41.4	52.6	44.5	22.8	1.8			15.7
≥	70			.9	14.0	36.7	62.8	75.3	71.8	41.7	6.9			25.8
≥	65			5.2	26.9	56.7	84.0	92.9	92.8	69,7	19.7			37.2
≥	60	.2	1.4	16.0	46.4	79.1	95.0	99.2	99.4	89.5	40.3	1.4	. 3	47.3
≥	55	.8	5.4	30.8	66.5	94.4	99.5	100.0	100.0	98.3	67.2	8.1	1.3	56.0
≥	50	5.4	15.7	54.2	86.6	99.1	100.0			99.8	84.1	29.2		65.1
≥	45	17.5	32.3	70.9	96.7	99.3				100.0	95.9	55.6	22.2	74.3
≥	49	38.1	52.1	85.2	99.5	100.0				•	99.3	78.2	46.5	83.3
≥	35	63.9	73.6	96.8	100.0					ļ	100.0	94.8	72.4	91.8
≥	30	81.9	89.3	99,7				·	•	 		99.7	88.1	96.6
≥	25	92.6	95,4	100.0							, •	100.0	95.3	98.6
≥	20	98.5									· 		99.0	99.7
≥	15	99.8	99.5						! !			! •	99.9	99.9
≥	10	100.0									1		100.0	100.0
≥	5		100.0							ļ	<u> </u>	1		100.0
2							· · · · · · · · · · · · · · · · · · ·			l				<u> </u>
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2			i In the second		-						-			/ } ————————————————————————————————————
	MEAN	36,9	40,1		59.1	66,8	72,8	76.0	74.4	68.9	57.7	45.4	38,5	57.2
<u> </u>	S. D	7.932			9.065		8.610		7.543			6.723		16.257
l	TOTAL OBS.	646	591	647	629	645	626	645	649	657	680	657	680	7754

DAILY TEMPERATURES

DATA FRECUSJING SKAACH
USAG ETAC
AIR WEATHER SERVICE/MAC
35032 REIN-HAIN APT GERMANY/FRANKFUNT
STATION MAME

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM DAILY OBSERVATIONS)

MINIMUM

	TEMP (°F)	JAN	FEB	MAR.	APR	MAY	JUN	JUL ,	AUG	SEP	ост	NOV	DEC	ANNUAL
≥	7.0						.3	1.1						.1
≥	65					.2	1.1	5.2	1.7	. 2		. ~	•	. 7
≥	60				2	1.8	11.9	24.1	19.2	5.5	.1		· **	5.2
≥	55				5	12.6	38.6	20.7	51.3	25.5	4.0		•1	16.1
≥	50	.3	. 3	. 9	7.1	34.2	69.0	47.7	82.2	55,1	15.7	2.0	.6	29.6
≥	45	1.2	2,5	7.2	25.1	60.6	89.2	96.2	94.5	79.2	38.0	9.4	3.4	42.2
≥	40	7.4	11.6	22.6	51.6	81.2	97.8	99.4	99.7	92.6	52.5	32,5	13.1	56.1
≥	35_	24.0	26.1	45.2	79.2	93.7	99,5	100.0	100.0		80.6	58.3	32.3	69.9 75.3
≥	33	34.6	36.8	52.8	85.6	97.1	99.8			99.5	86.2	67.4	42.6	75.3
≥	30	50.5	50.3	68.4	92.9	99.4	100.0			100.0	94.4	81.9	62.4	83.5
≥	25	69.7	70.8	84.8	98.6	100.0					99.6	94.1	79.0	91.5
Σ	20	62.2	83.6	95.4	100.0						100.0	98.9	88.3	95.8
≥	15_	59.6	90.6	99.1								99.7	93.5	97.7
≥ ≥	10	95.4	94.9	99.7								100.0	97.8	99.0
≥	55	98.3	97.1	100.0									99.7	99.6
≥	00	99.8	97.3										100.0	79.9
2	~5	100.0	100.0											100.0
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	MEAN	27.9	28.4	33.0	39.8	46.2	52.4	55.6	54.3	49.9	41.7	35.8	30.4	41.3
	S D	9.307		8.017				5.741	5.563	6.420		6.948		12.295
1	TOTAL OBS.	651	593	651	630	650	629	651	651	699	682	659	681	7767

USAF E'AC 10-21-5 (OL 1) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLÉTE

DATA PROCESSING FRANCI
USAF TAC
AIF MEATHER SERVICE/PAC
38332 RELIM-MAIN APT GERMANY/FRANKFUNT
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DAILY TEMPERATURES

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM DAILY OBSERVATIONS)

MEAN

TEMP (°F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAUNUAL
≥ 85							, 3		_				•0
l≥ 80						.8	2.9	.8					.4
l≥ 75					. 2	3.8	10.4	5.2	.9	• !		•	1.7
≥ 70				.2	2,5	13.1	27.3	18.6	4.6				5.5
≥ 65	,			1.6	12.9	36.3	52.4	46.5	20.0	.6			14.1
≥ 60			.2	1.6 7.8	32.0	69.3	85.9	81.4	48.6	6.3	1	•	1.7 5.5 14.1 27.5
≥ 55	•2	,5	2.9	23.4	60.6	91.9	98.3	98.3	79.3	25.1	.9		40.1
≥ 50	.6	2,5	13.9	50.1	85.9	98.6	98.3 100.0	100.0	96.3	52.8	7.3	1.2	50.8
≥ 45	5.6	10.5	39.6	76.2	96.9	99.8			99.7	52.8 78.7	30.5	8.7	50.8 62.3 73.7
≥ 40	19.2	28.9	62.7	93.6	99.8	100.0	i		100.0	93.8	58.4	26.4	73.7
≥ 35	43.8	53.8	79,2	99.5	100.0					99.3	82.8	54.6	84.5
≥ 30	67.8	73.1	93.7	100.0						100.0	95.7	76.9	92.3
≥ 25	83.6	85.6	99.1				1				99.5	89.2	96.5
≥ 20	91.6	94.2	100.0				i		f		100.0	95.1	98.4
≥ 15	96.7	97.0										98.5	99.4
≥ 10	99.7	99.3						'				99.7	99.9
≥ .5	100.0	99.8										100.0	100.0
≥ 0		100.0											100.0
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MEAN	32.5	34.3	41.6	49.5	56.6	62.7	69.4	64.5	50.5	49.8	40.8	34.6	49.4
\$. D	3.267	8.950	7.444	6.698	6.559	6.205	6.280	5.548	5.920	6.530	6.306	7.958	13.743
TOTAL O.15	346	591	649	629	644	624	645	649	656	680	656	679	7750

USAF ETAC FOLM 0-21-5 (OL 1) PREVIOUS CINTIONS OF THIS FORM ARE OBSOLETE

EXTREME VALUES

MAXIMUM TEMPERATURE

(FROM DAILY OBSERVATIONS)

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REIN-MAIN APT GERMANY/FRANKFURT 46-67

WHOLE DEGREES FAHRENHEIT

MONTH	MAL	FEB	MAR	AFR	MAY	ו אטנ	ງບເ	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
46		i -							79	6 P	60	47	····
47	48	41	66	77	88	97	99	96,	93	78	58	52	99
48	60	53	69	80	83	92!	93	93	84	77	60	<u>52</u>	93
49	51	53	74	87	80	84	95	92	93	74:	54	54 <u>.</u> 49 .	95
50	52	59	64	70	82	94	92	93	77	661	61	49	
51	49	50	<u>61</u> 1	79	82	79	891	90	85	57	58_	48	<u>90</u>
52	51	49	62	78	80	93	99	92	73	60	52	47	
53	47	58	72	76	89	84	87	90	92	72	5.5	60	92
54	53	47	65	67	83	90	81	891	85	70	58	51	90
55	50	51	69	84	83	85	91	83	78	65	63	56	91 85
56	50	38	71	69	84	77	85	81	75	75	51	54	8.5
57	53	62	68	74	78	92	100	81	80	67	60:	52	100
58	47	64	65	65	81	85	84	86	83	67	55	51	86
59	56	56	68	79	82	87	99	91	86	75	53	53 (99
60	51	62	66	73	80	87	84	83	76	70	60	52	8.
61	51	61	69	79	75	89	89	87	87	73	57	60	89
62	52	49	55	81	78	86	89	93	88	80	62	45	93
63	38	40	56	70	80	79	91	96	79	64	63	45	96
64	40	52	58	79	83	91	95	95	84	71	56	51	9
65	51	42	68	68	82	87	87	84	77	68	59	55	87
66	* 514	594	57H			87*	82	93	78	78	59	¥ 50	* *
67	55	59	60	694	82*	87	91	86	78	71	55	• 51	91
MEAN	50.3	52.6	64.9	75.1	81.5	87.2	90.6	89.2	82.3	70.7	57.7	51.5	92.
\$. D.	4.787	7.832	5.421	5.949					5.897	5.156	3.442		4.46
TOTAL OBS.	646	NOTES	* (BAS	629	₹ FULL	626	645	649	657	680	657	680 "	775

(AT LEAST ONE DAY < 24 OBS)

USAF ETAC NOM 0-88-5 (OLA)

DATA PROCESSING BRANCH USAF/ETAC/OL A AIR WEATHER SERVICE/MAC

EXTREME VALUES

MINIMUM TEMPERATURE

IFROM DAILY OBSERVATIONS

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35032 REIN-MAIN APT GERMANY/FRANKFURT 46-67

WHOLE DEGREES FAHREMHEIT

MONTH YEAR	JAN	FEB	MAR	APR	/\AY	אטנ	JUL	AUG	SEP	ОСТ	NOV	DEC	ALL MONTHS
46						 ;			40.	25	26	5	
47	1	13	19	30	39	42	50	42:	39. 34	27	25	14 10 21 11 23	
48	26	13	25	33	37	45	46	45	34	29	18	10	1
49	21 12	14	16	32	31	37	44	44	45	31 21	24. 26	21	Ĩ
50	12	20	20	30	35	46	51,	44	44	21	26	ii	_ 1
51 52 53	21 23 13	25 12	26 19	28	32 36	45	44	42,	35 38	2 ⁸	28 23	23	2
52	23	12	19	24	36	43	45	45	38.	28	23.	15	ì
53	13	4	20	31	27	38	47	42:	35 32,	26 29	24.	23	1 - 1 2 1
54	3	3	22	26	30	41	44	40	32,	29	\$0	23	
55	$\frac{14}{16}$	4	17	25	27	34	45	47	34:	24	<u>i6</u> .	23 23 19 17	
56	16	-4	13	22	30	40	47	38	38	30		17	
57	6	21	20	26	30	38	45	38	35	50	27	19	
58	11	17	9	20	32	41	45	46	40	25		16	
59	13	15	24	24	35	44	50	43	40	32	29	20 l	
60	-1	12	27	30	27	42	42	42	32	32	26		-
61 62 63	11	28	24	38	33	4,3	39	46	42	32		5	
62	1.	8	16	28	30	32	38	41	34	29	21	1	
63	U	4	9	24	31	* 44	47	40	37	29	30	2	
64	6	16	17	32	34	38	38	40	32	27	28	10	
65	21	12	15	28	30	42	46	41	39	26	14	24	1
66	1	24	21	28		41	42	42*		28			
- 67	6	19	24	23	26	37	<u> </u>	42	41	28	21	10	
1													
MEAN	11.3	13.3	18.9	27.7	31.8	40.6	44.7	42.4	37.4	28.6	23.0	14.9	6
5. D.	8.119	8.145	4.847	4.200	3.562	3.694	3.703	2.519	3.738	2.751	5.062	7.224	5.9
TOTAL OBS.	651	593	651	630	650	629	651	651	659	682	659	681	778

NOTES * (BASED ON < FULL MONTHS)

A) # (AT LEAST ONE DAY < 24 DPS)

USAF ETAC FORM 0-80-5 (OTA)

PSYCHROMETRIC SUMMARY

35032 RHE IN-MAIN APT GERMANY/FRANKFURT 67-76 WET BULB TEMPERATURE DEPRESSION (F) TOTAL 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 | 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 | 28 | 29 - 30 | 2 31 96/ 95 .01 12 94/ 93 12 .0i •0 • 0 •0 32 90/ 89 74 99 99 88/ 87 256 .0 256 86/ 85 •0 226 .0 .0 358 402 78/ 77 .0 • 0 •0 .0 20 .0 972 972 70/ 69 1171 1171 96 68/ 67 1963 1964 668 66/ 65 1712 1712 1157 2414 2414 1940 64/ 63 2092 2092 2394 62/ 61 3194 3194 2713 2354 2354 3067 2153 2351 2351 3200 2369 58/ 57 •0 2708 2209 3317 2432 2226 2226 2781 3079 3283 3283 3204 4059 2514 2514 3010 3024 3222 3222 3064 3517 2943 2944 3426 3004 .6 2.7 .6 2.7 4327 4327 3299 4330 2855 2855 3821 3904 .8 2.5 1.0 2.5 _6 2 2733 2734 3770 3415 2488 2488 2961 2765 2209 2209 3376 3621 2388 2390 2542 3739 Mean No. of Hours with Temperature Element (X) ≤ 32 F Dry Bulb

FETAC FORM 0.26-5 (OLA) RINBO MENOUS ENTONS OF THIS FORM ARE OSSOCITED

DATA PROCESSING BRANCH USAF ETAC PSYCHROMETRIC SUMMARY AIR WEATHER SERVICE/MAC 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 WET BULB TEMPERATURE DEPRESSION (F) 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 21 D.B. W.B. Dry Bulb Wet Rulb Dew Poin 1229 1229 1776 2591 30/ 29 .6 1.3 .0 1125 1127 1266 2346 503 682 1423 25/ 25 455 1075 488 487 401 22/ 21 20/ 19 248 249 536 212 247 485 17 195 368 18/ 125 140 345 125 122 13 111 111 314 61 55 48 152 10/ Û 67 8/ 13 6/ G 2/ -2/ .0 -6/ -7 -8/ -9 \$9621 13.237.518.910.0 6.8 4.7 3.3 2.3 1.4 39634 TOTAL .0 •0 59621 59621 Element (X) 10F 132F 267F .6 986,31147.3 .61169,2 162.5 .72014.7 17.0 77.017.625 372214372 4592126 59621 - 73 F | × 80 F | × 93 F Total 2949121 49.514.325 8760 59634 ا8ء 181 في مر Wet Bulb 8760

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DATA PRUCESSING BRANGH PSYCHROMETRIC SUMMARY USAF ETAC AIR WEATHER SERVICE/MAC 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 FT BULB TEMPERATURE DEFRESSION (F) TOTAL 7 - 8 9 - 10 11 - 12 13 - 14 15 - 3 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 28 29 - 30 - 31 D B. W.B. Dry Bulb Wet Bulb Dew Poin 56/ 55 54/ 53 52/ 51 C .0 48/ 47 44/ 43 42/ 41 40/ 39 32/ 31 30/ 29 28/ 27 20/ 16/ 15 12/ 11 8/ ·=2/ · 3 -6/ -7 Mean No of Hours with Temperature ≥67 F = 73 : | >80 F | ≥ 93 F Rel. Hum.

DATA PROCESSING BRANCH USAF ETAC **PSYCHROMETRIC SUMMARY** AIR WEATHER SERVICE/MAC 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 0 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 24 25 - 26 27 28 29 - 30 + 31 DB. WB Dry Bulb Wet Bulb Dew Point TOTAL 25.459.913.0 1.6 Element (X) 39162798 444606 87.1 9.375 5106 ± 0 F ± 32 F 179087 35.1 8.631 172239 33.7 8.168 160905 31.5 8.707 .6 266,5 .6 294,2 6660441 5107 5106 5106

DATA PROCESSILG BRANCH USAF ETAC PSYCHROMETRIC SUMMARY AIR WEATHIR SERVICE/MAC 35032 RHEIN-KAIN APT GERMANY/FRANKFURT 67-76 WET BULB TEMPERATURE DEPRESSION (F) TOTAL . - 2 | 3 - 4 | 5 | 5 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | > 31 | D.B. W.B. Dry Bulb Wer Bulb Dew Poin 60/ 59 58/ 57 56/ 55 54/ 53 52/ 51 .0 48/ 47 . 6 •0 44/ 43 40/ 39 32/ 31 30/ 29 ť: 28/ 27 26/ 25 24/ 23 20/ 18/ 12/ 16.449.923.4 7.5 2.1 TOTAL 466B No. Obs. Element (X) Mion No. of Hours with Temperature ≤ 32 F 182.9 227.0 36.5 6.569 34.3 5.761

DATA PROCESSING BRANCH **PSYCHROMETRIC SUMMARY** AIR WEATHER SERVICE/MAC RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 MAR WET BULB TEMPERATURE DEPRESSION (F) 76/ 75 74/ 73 .0 72/ 71 .0 70/ 69 68/ 67 66/ 65 .1 64/ 63 62/ 61 ,3 .0 60/ 59 58/ 57 56/ 55 54/ 53 •0 50/ 49 .0 48/ 47 46/ 45 2.2 3.8 44/ 43 42/ 41 40/ 39 .0 38/ 37 36/ 35 2.0 34/ 33 32/ 31 30/ 29 77 28/ 27 1.0 1.4 24/ 23 • 3 16/ 12/ 11 10/ 9 10/ Mean No. of Hours with Tamperatur Dry Bulb Wet Bulb

DATA PROCESSING BRANSH USAF ETAC **PSYCHROMETRIC SUMMARY** AIR WEATHER SERVICE/MAC 35032 RHEIN-MAIN APT GERHANY/FRANKFURT 67-76 TOTAL TOTAL
D.B. W B Dry Bulb Wet Bulb Dew Point WET BULB TEMPERATURE DEPRESSION (F) 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 15 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | + 31 8/ 8.137.526.313.6 8.0 3.8 1.4 .8 .4 5104 5104 C mosso 73.816.261 376731 29156273 5104 10F 132F Rel. Hum. 267 F 273 F 30 F 209627 41.1 8.917 191777 37.6 7.384 166703 32.7 8.132 5105 5104 9013775 7484037 125.3 170,7

DATA PROCESSING BRANCH PSÝCHROMETRIC SUMMARY USAF ETAC AIR WEATHER SERVICE/MAC 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 WET BULB TEMPERATURE DEPRESSION (F) 1 - 2 3 - 4 5 - 6 7 - 8 , - 10 31 - 12 13 - 14 15 - 16 17 - 18 19 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 + 31 D 8 - M.B. Dry Buils Wer Buils Dew Poin 84/ 83 82/ 81 80/ 79 78/ 77 76/ 75 72/ 71 48 83 72 Ü 68/ 67 83 97 64/ 53 62/ 61 113 210 196 196 56/ 55 241 241 270 270 288 52/ 51 436 139 48/ 47 396 499 483 483 320 343 311 302 494 2.6 40/ 39 230 568 137 324 218 102 102 475 138 32/ 31 100 100 30/ 29 28/ 27 82 46 46 24/ 23 116 20/ 19 Dry Bulb

DATA PROCESSING BRANCH USAF ETAC PSÝCHROMETRIC SUMMARY 2 AIR WEATHER SERVICE/MAC 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 PAGE 2 Temp. (F) WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 0 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 2 31 D.B. W.B. Dry Bulb Wet Bulb Dew Poin 16/ 15 0 TOTAL 5.425.323.214.512.1 7.7 4.7 3.1 2.1 1.0 4893 4891 .4 • 2 4891 4891 G 0 0 Element (X) 332256 67.918.939 24324820 489 267 F 273 F 280 F 293 F 235068 48.0 9.357 209409 42.8 6.652 179809 36.8 7.009 720 720 Dry, Bulb 11721358 4893 30.3 29.0 9182249 4891 44.6

DATA PROCESSING BRANCH USAF ETAC **PSYCHROMETRIC SUMMARY** AIR WEATHER SERVICE/MAC 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 ALL HOURS (L. S. T.) TOTAL WET BULB TEMPERATURE DEPRESSION (F) 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 = 31 D.B. W B Dry Bulb Wet Bulb Dew Poir 86/ 85 84/ 83 .0 •1 C 82/ 81 80/ 79 78/ 77 76/ 75 74/ 73 72/ T1 70/ 69 68/ 67 .3 66/ 65 1.2 64/ 63 62/ 61 60/ 59 58/ 57 56/ 55 54/ 53 50/ 49 48/ 47 2.8 3.6 1.1 •0 46/ 45 2.9 42/ 41 1.8 40/ 39 38/ 37 • 0 34/ 33 32/ 31 30/ 29 28/ 27 .26/ 25 TOTAL 5.924.518.714.710.8 9.0 6.7 5.0 2.2 Mean No. of Hours with Temperature Element (X) Rel. Humi 352576 69:919:101 285853 56.7 9:157 ± 32 F 267 F 273 F 280 F 293 F 1.5 109.7 38.2 256910 ... 50.9 6.199

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DATA PROCESSING BRANCH PSÝCHROMETRIC SUMMARY USAF ETAC AIR WEATHER SERVICE/MAC 35032 RHEIN-HAIN APT GERMANY/FRANKFURT 67-76 WET BULB TEMPERATURE DEPRESSION (F) TOTAL D B. W.B. Dry Buib Wet Buib Dew Port 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | .5 - 26 | 27 - 28 | 29 - 30 | ≥ 31 94/ 93 92/ 91 •0 25 90/ 89 88/ 87 86/ 85 ,0 82/ 81 80/ 79 78/ 77 •0 • 0 74/ 73 72/ 71 70/ 69 68/ 67 66/ 65 647 63 62/ 61 60/ 59 58/ 57 . 2 56/ 55 54/ 53 52/ 51 2.6 2.1 46/ 45 42/ 41 40/ 39 38/ 37 36/ 34/ 33 30/ 29 Mean No. of Hours with Temperature Element (X) ≤ 32 F

DATA PROCESSING BRANCH USAF ETAC PSÝCHROMETRIC SUMMARY 2 AIR WEATHER SERVICE/MAC 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 TOTAL TOTAL
D.B. W.B. Dry Bulb Wet Bulb Dew Poin WET BULB TEMPERATURE DEPRESSION (F) 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | 31 5.021.918.414.711.1 8.7 6.8 4.9 3.2 1.9 1.3 .8 .6 .4 .3 TOTAL 4892 4892 4892 No. Obs. 339358 69.419.228 25349462 267 F 273 F 280 F 293 F 19374652 15394991 304360 62.2 9.470 272927 55.8 5.865 248597 50.8 5.957 4892 720 720 Dry Bulb 218.9 107.6 31.9 4892

DATA PROCESSING BRANCH PSÝCHROMETRIC SUMMARY USAF ETAC AIR WEATHER SERVICE/MAC 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 WET BULB TEMPERATURE DEPRESSION (F)

1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | > 31 | D B-W.B. Dry Bulb Wet Bulb Dew Point 96/ 95 94/ 93 90/ 89 .0 86/ 85 •1 84/ 83 82/ 81 G 78/ 77 •0 76/ 75 G gg 70/ .69 68/ 67 64/ 63 -62/ 61 56/ 55 19 427 243 50/ 49 48/ 47 16 46/ 45 42/ 41 38/ 37 35/ 35 Element (X) Mean No. of Hours with Temperature

DATA PROCESSING BRANCH PSÝCHROMETRIC SUMMARY USAF ETAC 2 AIR WEATHER SERVICE/MAC RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 WET BULB TEMPERATURE DEPRESSION (F) 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 20 21 - 22 23 - 24 25 - 26 27 - 28 29 30 = 31 DB. W.B. Dry Bulb Wet Bulb Dew Point 4.720.616.413.310.9 9.1 8.0 6.7 4.2 2.4 1.3 .8 .4 .4 .4 .4 .3 .1 4914 4914 TOTAL 4914 4914 0 Meen No. of Hours with Temperature Element (X) 337588 68.717.433 327194 66.6 9.290 292711 35926 5.429 4914 267 F = 73 F = 80 F = 93 F 342.6 184.7 76.5 3. Rel. Hum. 25047452 10F 744 22209924 Dry Bulb 744 17550641 4914 74.0 268681 54.71.5.810 10.7

DATA PROCESSING BRANCH USAF ETAC AIR WEATHER SERVICE/MAC

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PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 27 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | D B. W.B. Dry Bulb Wet Bulb Dew Poin 96/ 95 94/ 93 .0 3 92/ 91 •0 •0 90/ 89 14 .0 88/ 87 37 37 C .0 47 84/ 83 78 107 107 80/ 79 •0 128 238 238 75 76/ •0 188 188 215 269 72/ . 6 269 70/ 69 294 294 102 68/ 67 484 250 66/ 65 374 374 434 117 3.3 2.3 64/ 63 631 .0 580 580 365 314 .60/ 59 591 702 2.9 651 58/ 57 598 736 348 348 609 56/ 55 2.2 205 203 535 174 417 174 483 52/ 51 232 675 104 104 () 64 142 623 48/ 47 24 24 66 306 12 26 177 -44/ 43 -42/ -41 71 40/ 39 23 ·38/ 37 10 .34/ .33 32/ 31 6.822.316.112.310.7 8.7 7.3 5.2 3.7 3.1 1.3 1.3 TOTAL 5058 5058 No. Obs. 355460 70.319.581 333033 65.8 8.720 Rel. Hum. 26919490 5058 ≥ 67 F = 73 F = 80 F = 93 F 22312375 5058 317.4 163.4 744 299900 59.3 5.134 276449 54.7 5.666 17915026 744 5058 744 C DATA PROCESSING BRANCH PSYCHROMETRIC SUMMARY USAF ETAC 2 AIR WEATHER SERVICE/MAC RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 ALL WET BULB TEMPERATURE DEPRESSION (F) TOTAL 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | = 31 D 8. W B Dry Bulb Wet Bulb Dew Poin 90/ 89 88/ 87 86/ 85 .2 •1 17 •1 84/ 83 11 82/ 81 R C 80/ 79 19 78/ .0 65 77 53 53 76/ 75 .0 C 75 75 74/ 73 71 69 101 101 70/ 162 162 .6 257 257 68 68/ 67 .0 **T3** 242 242 119 66/ 65 •6 .6 375 375 70 379 371 379 141 62/ 61 383 579 430 579 57 434 481 397 434 58/ •1 431 431 581 432 654 54/ 53 384 384 445 357 357 540 324 512 655 50/ 49 3.9 324 187 340 459 187 48/ 156 156 225 468 2.0 100 100 155 329 118 42/ 41 40/ **39** 109 342 1.0 109 25 25 44 109 26 37 20 20 -38/ -37 18 ·36/ ·35 -34/ :33 21 30/ 29 24/ 23 TOTAL 12.632.119.212.7 9.2 6.4 4.1 4886 Element (X) No. Obs. 78.416.728 58.0 8.540 53.9 6.262 31412897 16809512 383151 283532 Rei. Hum. Dry Bulb 113.9 37.3 4886 263485 720 Wet Bulb 14400173 4886 720 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

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DATA PROCESSING BRANCH USAF ETAC AIR WEATHER SERVICE/MAC

																				HOURS (L. S. T.)
Tem	,							BULB '										TOTAL		TOTAL	
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76/								.0		İ			<u> </u>		نـــــــــــــــــــــــــــــــــــــ			<u>i 2</u>	2		<u> </u>
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72/	71					.1	•0	<u> </u>									i	4	4		<u>i</u>
70/	69				.0	.2	.1	•0	•0	.0					!	1		24	24	i	1
68/	67				•2	. 2	. 5	.1	.1				<u> </u>				<u> </u>	52	52	Ĺ	i
66/	65			• 1	.3	- 4	.1	.1	·i	Ī								52			•
64/	63		.1	•6		.4	3	.1	•0								l	102	102	15	<u> </u>
62/	61		.3	.6		.4	•1										-	104		34	
60/	59	i	1.2		.1.0	.5	. 4	.0	.0						_		i	212	212	84	
58/	57	.1	1.3		1.1	. 6	• 2	•2	•0	ļ			l				-	234	234	179	75
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44/	43	2.0		. 8	. 5	.0		<u> </u>	i	<u> </u>			<u>L</u> _	⊥				444	444	610	541
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Dew P				0733 6435				43.2			50				56,4		 				744
_VOP_P								7306				49	Ļ		2004	L					

PSYCHROMETRIC SUMMARY

(DATA PRUCESSING BRANCH PSYCHROMETRIC SUMMARY USAF ETAC AIR WEATHER SERVICE/MAC 35032 RHEIN-HAIN APT GERMANY/FRANKFURT 67-76 ALL HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 13 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 79 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | 2 31 | D B. W.B. Dry Bulb Wer Bulb Dew Point 64/ 63 -60/ 59 58/ 57 56/ 55 G 52/ 51 50/ 49 C 48/ 47 •0 C 40/ 39 5.4 1.9 .0 .36/ 34/ 33 32/ 31 3.1 30/ 29 28/ 27 . 5 22/ 21 20/ 19 18/ 17 16/ 15 24.250.919.0 4.7 TOTAL Mean No. of Hours with Temperature 198574 86.711.011 Rel. Hum. ± 32 F Dry Bulb 97,2 :40.5 6.682 Wet Bul's 38.8 6.025 114.8

P-6-2002

G DATA PROCESSING BRANCH PSYCHROMETRIC SUMMARY USAF ETAC AIR WEATHER SERVICE/MAC 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 WET BULB TEMPERATURE DEPRESSION (F) TOTAL 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 + 31 10.8-W.B Dry Buils Wer Buils Dem Pora 58/ 57 6! 56/_55 54/ 53 46/ 45 494 O 399 30/ 29 28/ 27 26/ 25 Ž2 10/ 6/ Element (X) No. Obs. 5108 86,5 9,330 ≤ 32 F 178902 35.0 8.367 171617 33.6 7.904 Dry Bulb 266,1 Wet Bulb 296,8

DATA PROCESSING BRANGH PSYCHROMETRIC SUMMARY USAF ETAC AIR WEATHER SERVICE/MAC RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 0000-0200 Temp. WET BULB TEMPERATURE DEPRESSION (F) 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 | 26 | 27 - 28 | 29 - 30 | + 31 | D.S. W.B. Ory B. Ib | Wer Bulb | Dew Point 52/ 51 50/ 49 C 48/ 47 16 .2 1.3 1.1 16 23 23 30 40 .8 3.3 32 32 17 .8 7.3 42/ 41 60 1.4 5.6 1.3 1.9 5.1 .8 48 56 53 53 40/ 39 45 49 60 36/ 35 55 55 47 83 82 87 83 32/ 56 27 17 13 13 11 13 22/ 14 15 14 15 11 20/ 19 19 16/ 15 1.1 10 10 .12/ 11 8 8 8 5 10/ 8/ 4/ 0/ -1-2/-331.960.1 7.5 Element (X) No. Obs. 4 55749 88.9 8.017 21121 33.7 4.586 1 32 F 4997097 627 Dry Bulb 39.8 757623 627 Wet Bulb 709164 20458 32.6 8.157 42.0 93

OATA PROCESSING BRANGH PSYCHROMETRIC SUMMARY USAF ETAC AIR WEATHER SERVICE/MAC 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 WET BULB TEMPERATURE DEPRESSION (F) TOTAL 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 18 19 - 20 21 22 23 - 24 25 - 26 27 28 29 - 30 - 31 D.B. W.B. Dry Buib Wer Buib Dew Poin 50, 49 .3 2.0 O 2.8 46/ G 1.4 2.9 38/ 3.7 15 2.0 1.2 7 1.9 .6 2 5 10/ 6/ --47 36.955.6 7.1 Element (X) Mean No. of Hours with Temperature Rel. Hum. 58107 89.8 7.967 1 32 F 21506 3332 9:037 20886 32:3 8:631 Dry Buib :647 44.3

DATA PROCESSING BRANCH PSYCHROMETRIC SUMMARY USAF ETAC 2 AIR WEATHER SERVICE/MAC RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 35032 O 0600-0800 HOURS (L, S, T,) WET BULB TEMPERATURE DEPRESSION (F) TOTAL 0 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 2 31 D.B. W.B. Dry Bulb Wet Bulb Dew Poin 52/ 51 . 3 50/ 49 13 10 5 48/ 47 .2 1.6 13 16 22 46/ 43 .6 2.0 44/ 43 33 33 28 19 O 39 71 7i 36 40/ 39 2.0 50 50 66 50 4.7 • 9 38/ 37 43 G 36 40 30 36 36/ 35 3.9 84 75 33 75 62 90 90 93 90 32/ 31 50 50 64 69 30/ 33 33 65 28/ 27 33 16 12 . 8 12 12 .24/ 23 22/ 14 19 15 15 13 20/ 18 19 19 20 16/ 15 . 5 12/ 11 10/ 9 10/ 2 2 8/ 7 2 0 10 6/ 3 4/ -8/ -9 640 TOTAL 38.355.0 6.6 640 640 No. Obs. Element (X) Rel. Hum. 57650 90.1 7.788 ± 32 F 5231760 640 21166 33.1 9.130 93 Dry Bulb. 753270 <u>:640</u> .1 41.4 2057) 327) 87729 19477 33074 97150 44,3 93 709887 640

DATA PROCESSING BRANCH PSÝCHROMETRIC SUMMARY USAF ETAC 2 AIR WEATHER SERVICE/MAC 0 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 0900-1100 HOURS (L. S. T.) PAGE 1 WET BULB TEMPERATURE DEPRESSION (F) TOTAL 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | 2 31 | D B-W.B. Dry Buth Wet Buth Dew Poin 52/ 51 50/ 49 C 48/ 47 46/ 45 .5 1.7 1.3 .3 2.8 1.6 23 23 13 .9 3.1 2.0 1.6 8.5 3.1 40 19 40 44/ 43 C 30 8.5 84 85 1.7 5.0 1.9 40/ 39 55 55 61 69 38/ 37 51 36/ 35 1.6 4.9 51 80 80 62 34/ 33 84 76 76 74 4.5 32/ 31 7.4 54 52 39 30/ 29 29 21 28/ 27 1.4 29 26/ 25 **(3)** 1.9 18 18 14 24/ 23 18 12 12 20/ 19 1.3 12 0 18/ 17 9 18 15 16/ 15 13 13 14/ 13 8 8 2 12/ 11 2 707 8/ 6 _6/ -2/ -3 -4/ -5 638 TOTAL 638 26.858.314.1 638 638 55839 87.5 9.126 4940189 638 ± 32 F Dry Bulb 22374 35.1 8.594 31.8 638 831654 93 21558 3328 4.175 ·Wet Bulb 1 34.1 1 45.3 771020 638

20198 3137 8:781

DATA PROCESSING BRANCH USAF ETAC AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PAGE 1 1200-1400

	Temp.							TEMPER										TOTAL		TOTAL	
1;	(F)	0 1 - 2		5 - 6	7 - 8	9 - 10	11 - 12	13 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point
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C	44/ 43	.3 5.8		1.1			 			ļ							<u> </u>	61	61	39	22
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^ *	TOTAL	13,155.	<u> 724 • 6</u>	6.0	.5	2	<u> </u>			 				<u> </u>			<u> </u>	ļ	634		634
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•	Element (X)	ΣXi			ZX.		X 1. 2	· •		No. Ol	s. [Mean	No. of H	ours wit	h Tempera	ture		
USAFETAC	Rel. Hum.	43				52248 82.4				6	34	101	. T	≤ 32 F	× 67		73 F	≥ 80 F	≥ 93 F		Total
<u> </u>	Dry_Bulb		20634		237			7.8			34			21.3							93
≤	Wet Bulb	81	33863		222			17.3			34			28.2				1			93
	Dew Point		10694								36										93

C DATA PROCESSING BRANCH PSYCHROMETRIC SUMMARY USAF ETAC AIR WEATHER SERVICE/MAC 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 1500-1700 PAGE 1 TOTAL WET BULB TEMPERATURE DEPRESSION (F) Temp (F) TOTAL D.B. W.B. Dry Bulb Wet Bulb Dew Point 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | = 31 54/ 53 27 25 27 50/ 49 .3 1.4 2.4 4.8 2.7 5.9 2.7 56 12 467 45 44/ 43 61 83 61 83 42/ 41 9.1 3.4 91 67 57 40/ 39 50 50 66 36/ 35 6.2 38 71 62 33 62 6.7 1.6 53 34 17 20 20 30/ 29 2.2 47 2.2 12 26/ 25 . 6 1.3 24/ 13 13 11 2.1 22/ 21 1.1 .6 6 18/ 17 16/ 13 14/ 8 10/ 67 10.762.521.7 4.8 TOTAL 626 626 626 624

626

<u> -626</u>

4386515

930476

838997

Dry Bulb

Wet Bulb

57.001

23654 37.8 27.662

22461 35.9 7:276

20645 3370 87131

≤ 32 F

21.2

. 26.9

93

DATA PRUCESSING BRANGH PSYCHROMETRIC SUMMARY USAF ETAC 2 AIR WEATHER SERVICE/MAC 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 1800-2000 HOURS (L, S. T.) PAGE 1 WET BULB TEMPERATURE DEPRESSION (F) TOTAL 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 - 31 D B. W.B. Dry Bulb Wet Bulb Dew 56/ 55 . 2 54/ 53 52/ 51 507 49 .2 1.5 .3 3.4 .5 4.5 1.110.8 18 13 48/ 47 18 46/ 45 44/ 43 49 59 101 101 60 40/ 39 6.3 60 86 38/ 37 68 51 43 36/ 35 60 72 73 76 72 32/ 31 39 56 57 4.8 39 30/ 26 27 32 54 28/ .27 2.0 2.0 35 16 24 9 11 17 23 21 11 24/ 10 22/ 19 18 18 10 .20/ 1.7 18/ 15 6 16/ 15 6 13 5 14/ 11 12/ 3 8/ 6/ 647 18.667.813.2 646 TOTAL 646 646 Element (X) No. Obs. 55876 86.5 8.619 4880930 646 ≤ 32 F ≥67 F = 73 F = 80 F = 93 F 22958 ... 35:5 8:191 Dry Bulb 857978 31.5 647 93 22040 -34.1 -7.867 -20549 -3178 -47588 Wet Bulb 35.7 646 93 -646

• DATA PROCESSING BRANCH PSYCHROMETRIC SUMMARY USAF ETAC 2 AIR WEATHER SERVICE/MAC 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 2100-2300 PAGE 1 TOTAL WET BULB TEMPERATURE DEPRESSION (F) TOTAL D B. W.B. Dry Bulb Wet Bulb Dew Poin () 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 ≥ 31 54/ 53 2 52/ 51 17 1.4 50/ 49 27 30 27 30 10 46/ 45 3.7 46 (, 3.2 44/ 43 33 33 35 63 63 41 1.2 7.7 42/ 39 40/ 53 53 62 () 38/ 37 2.9 4.9 74 67 74 367 .35 8.2 74 47 33 0 .31 4.0 9.1 65 88 43 43 30/ 29 2.0 4.6 60 29 24 12 30 12 25 12 24/ .6 1.2 10 10 17 13 21 22/ .8 13 13 13 18/ 17 .9 1.1 16/ 12 12 • 5 12/ 10/ 8/ 61 5 21 -2/ -3 TOTAL 648 648 .648 Element (X) No. Obs. Mean No. of Hours with Temperature Rel. Hum. 5080048 57136 \$8.2 8:077 648 ≤ 32 F ≥ 67 F ≥ 73 F ≥ 80 F ≥ 93 F 22530 34:8 8.598 21752 33:6 8:187 20459 31:6 8:667 34.9 37.0 Dry Bulb 831164 648 93 648 773536 48.21

DATA PROCESSING BRANCH PSYCHROMETRIC SUMMARY USAF ETAC AIR WEATHER SERVICE/MAC 2 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76
STATION NAME PAGE 1 0000-0200 WET BULB TEMPERATURE DEPRESSION (F) 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | = 31 D.B. W.B. Dry Bulb Wet Bulb Dew Poin U .2 58/ 57 50/ 49 48/ 47 •2 10 10 46/ 45 1.0 G 44/ 43 16 23 7.3 2.3 . 5 61 14 .39 55 55 29 6.8 77 77 53 C .37 3.6 7.1 2.4 58 58 66 72 92 63 72 .33 3.6 7.6 63 79 .31 2,3 29 27 2.1 54 54 73 68 6.8 49 49 68 G 26/ 25 24/ 23 27 55 2.9 27 21 18 40 1.6 1.6 18 .22/ .21 10 16 . 3 .2 () 1 . 2 14/ 13 2 10/ 577 TOTAL 24.661.212.7 577 577 0.26-5 (OL A) ů, Mean No. of Hours with Temperature Element (X) 49998 86.7 9.480 19737 34.2 6.233 Rel. Hum. 577 10F 4384172 267 F 273 F 280 F 293 F ± 32 F 84 32,0 697509 577 Dry Bulb 18952 32.8 5.778 17614 30.5 6.304 Wet Bulb 641722 577 37.1 84 84 Dew Point 560588

C DATA PROCESSING BRANGH PSYCHROMETRIC SUMMARY USAF ETAC 2 AIR WEATHER SERVICE/MAC 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 0300-0500 PAGE 1 WET BULB TEMPERATURE DEPRESSION (F) TOTAL 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 2 22 23 - 24 25 - 26 27 - 28 29 - 30 2 31 1-2 3-4 5-6 52/ 51 • 3 50/ 49 . 3 48/ 47 46/ 45 13 13 44/ 43 1.7 36 36 42 72 50 50 23 88 88 35 33 7.8 36/ 86 60 60 72 92 85 31 9.2 84 29 27 25 62 47 3.1 40 40 2.6 62 28/ 32 32 48 28 29 23 13 28 8 8 20/ 3 • 3 16/ 15 10/ 8/ TOTAL 31.656.810.2 1.4 579 579 No. Obs. 88.2 8.763 4544372 579 ≤ 32 F 19489 233,6 67463 18800 132,5 67024 17601 230,4 67488 679049 580 35.9 Dry. Bulb 84 631404 ,579 38,7 Wat Bulb

DATA PROCESSING BRANCH **PSYCHROMETRIC SUMMARY** USAF ETAC 2 AIR WEATHER SERVICE MAC RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 PAGE 1 0600-0800 WET BULB TEMPERATURE DEFRESSION (F) TOTAL Temp, D.B. W.B. Dry Bulb Wet Bulb Dew Poin 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 = 31 1-2 3-4 5-6 54/ 53 1 • 2 50/ 49 48/ 47 45 46/ 44/ 43 42/ 41 9 •2 1.0 37 37 11 10 C 6.0 26 65 6.4 1.910.0 5.5 6.0 35 84 54 45 C 36/ 2.2 • 3 70 109 77 33 70 87 78 32/ 31 9.2 62 46 85 29 28/ .27 2.6 46 46 46 37 37 37 38 54 24/ 1.7 10 14 Π 16/ 15 6 3 12/ 2 10/ 7 5 8/ Ç: 579 32.557.3 8.6 1.6 579 579 Element (X) No. Obs. 51118 88.3 8.787 Rel. Hum. 4557672 s 32 F 19209 133.2 6.349 18558 32.1 5.882 17374 30.0 6.308 660577 579 36.4 Dry Bulb 614812 579 41.2 84 Wet Bulb 579 Dew Point

C DATA PROCESSING BRANCH PSYCHROMETRIC SUMMARY USAF ETAC 2 AIR WEATHER SERVICE/MAC 35032 RHEIN-MAIN APT GERMANY/FRANK FURT 0900-1100 0 PAGE 1 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL €, D.B. W.B. Dry Bulb Wet Bulb Dew Poin (F) 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 56/ 55 1 54/ 53 C 1 13 52/ 51 13 50/ 49 10 10 48/ 47 Û 46/ 45 16 18 12 10 44/ 43 2.6 1.0 83 29 42/ 41 83 69 59 69 40/ 39 5.3 88 84 50 88 38/ 98 49 36/ 35 83 83 8.4 1.9 93 56 56 84 34/ 33 58 58 106 32/ 31 6.1 19 36 19 63 30/ 1.7 25 25 63 28/ 27 2.2 10 10 40 26/ 22 13 24/ 23 1.0 22/ 21 19 • 2 17 15 16/ 14/ 12/ 11 10/ 5 586 586 13.152.228.0 6.0 586 586 ğ No. Obs. -Element (X) Mean No. of Hours with Temperature 47646 81.311.510 556 Rel. Hum. 3951468 # 0 F ± 32 F 21545 . 36.0 5.958 20309 - 54.7 5.441 18.5 585 84 Dry Bulb 812895 84 Wet Bulb 721169 386 Dew Paint 18382 33 4 67177 48,2 84 598940

Û DATA PROCESSING BRANCH . **PSYCHROMETRIC SUMMARY** USAF ETAC 2 AIR WEATHER SERVICE/MAC (i RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 Temp (F) WET BULB TEMFERATURE DEPRESSION (F) TOTAL 0 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 - 31 0.8- M.B. Dry Bulb Wer Bulb Dew Poin 60/ 59 58/ 57 C 54/ 53 52/ 51 1 13 1.0 13 1.7 2.1 .9 .9 1.9 1.7 2.9 3.3 2.4 2.7 4.1 29 29 50/ 49 • 2 28 28 46/ 45 44/ 43 42/ 41 56 56 . 2 66 66 0 4.311.0 1.0 127 127 40/ 39 4.0 3.8 2.4 .3 64 64 1.2 4.8 3.4 1.5 2.4 3.4 .3 38/ 37 06 66 36/ 35 C 43 43 24 34/ 33 24 2.2 1.2 22 32/ 1.9 1.4 22 30/ 29 1.7 .3 12 12 28/ 27 20 20 26/ 25 • 2 22/ 21 20/ 19 18/ 17 1 16/ 14/ 13 6 107 5.229.634.422.2 7.0 1.2 TOTAL 582 0 ĝ 0.26.5 72.014.332 No. Obs. USAFETAC 41889 582 3134271 267 F 273 F 280 F 293 F Rei. Hum. 20 F 1 32 F 23445 40,3 5,990 21376 36,7 5,178 18322 31,5 6,447 965293 800686 582 8.9

¿Wet. Bulb Dew Point

600946

FEB 1200-1400

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84

DATA PROCESSING BRANCH PSYCHROMETRIC SUMMARY USAF ETAC 2 AIR WEATHER SERVICE/MAC 35032 RHEIN-MAIN APT GERHANY/FRANKFURT 67-76 FEB 1500-1700 WET BULB TEMPERATURE DEPRESSION (F) TOTAL 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 + 31 D 8-W.B. Dry Bulb Wer Sulb Dew Por 58/ 57 56/ 55 C 54/ 53 13 1.9 1.0 1.7 1.5 3.5 1.5 35 35 50/ 49 C 48/ 47 61 61 20 8 46/ 45 65 45 10 65 44/ 43 42/ 41 40/ 39 2.2 5.0 27 90 90 80 89 89 116 69 70 51 38/ 37 33 33 36/ 35 1.2 1.5 22 22 61 34/ 33 31 31 32 88 33 17 54 0 30/ 29 28/ 27 17 17 9 61 2 11 38 25 23 26/ • 2 36 22/ 13 . 2 . 2 10/ 4.527.937.720.2 585 584 584 Element (X) No. Obs. Meon No. of Hours with Temperatura 41948 71.814.453 23784 40.7 5.777 21626 37.9 5:072 3134852 Dry Bulb 535 8,9 986454 84 584 Wet Bulb \$15824 14.0 18560 31.8 6:471 -614268

C DATA PROCESSING BRANCH . USAF ETAC **PSYCHROMETRIC SUMMARY** 2 AIR WEATHER SERVICE/MAC RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 FE8 1800-2000 PAGE 1 WET BULB TEMPERATURE DEPRESSION (F) Temp. -2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 28 29 - 30 - 31 D.B. W B. Dry Bulb | Wet Bulb Dew Poin 58/ 57 3 1.2 .8 48/ 47 10 46/ 45 1.2 30 30 44/ 43 .3 4.1 1.5 .5 7.6 6.8 39 39 25 .7 94 45 42/ 41 17 .3 6.3 5.1 1.2 7.8 5.3 79 40/ 39 79 60 46 89 93 38/ 37 89 .3 8.1 5.4 (: 36/ 35 82 82 79 46 33 .8 3.1 347 43 106 69 3.2 43 38 .5 4.6 2.0 .7 3.9 1.0 31 46 81 32/ 45 G 47 34 27 25 28/ 33 64 2.2 20 26/ 15 7 41 23 24/ 43 22/ 3 15 20/ .2 18/ 15 16/ . 2 T 6 12/ 10/ 5.952.134.3 5.8 590 589 599 589 Element (X) 46643 77.211.460 .22077 37.4 5.466 .20643 35.0 5.135 3770736 Rel. Hum. 589 1 32 F 2 67 F 2 73 F 2 80 F 2 93 F 843689 590 16.2 589 738991 84

589

48,1

8468 31.4 6.163

Dew Peint

DATA PROCESSING BRANCH USAF ETAC **PSYCHROMETRIC SUMMARY** AIR WEATHER SERVICE/MAC RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 2100-2300 WET BULB TEMPERATURE DEPRESSION (F) 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | 231 | D.B. W.B. Dry Bulb Wet Bulb Dew Poin 58/ 57 . 2 50/ 49 48/ 47 16 1.9 6.8 1.2 7.8 1.5 9.6 1.5 9.6 15 6 26 26 30 C 64 40/ 39 3.7 73 73 60 42 75 75 75 35 36/ 35 2.2 80 76 62 80 102 69 31 1.5 8.8 71 57 90 71 32/ 66 65 75 52 2.9 2.7 28/ 36 36 62 8 36 23 21 8 10 .24/ 3 22/ 19 13 20/ • 2 13 15 16/ 12/ • 2 10/ 14.561.820.6 2.4 592 592 592 Element (X) He. Obs. Mean No. of Hours with Temperature 49435 83,510,241 4190061 592 ≤ 32 F 768922 Dry Bulb 21068 35.6 5.693 592 26,2 20040 33.9 5.351 18323 31.0 6.184 31.6 592 84 Wet Bulb. 20040 695306 592

DATA PROCESSING BRANGH USAF ETAC PSÝCHROMETRIC SUMMARY 2 AIR WEATHER SERVICE/MAC 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 MAR PAGE 1 0000-0200 WET BULB TEMPERATURE DEPRESSION (F) TOTAL 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 = 31 D.B. W.B. Dry Bulb Wet Bulb Dew Point 56/ 55 54/ 53 6 52/ 51 50/ 21 7 21 48/ 47 1.8 22 22 0 4.2 3.2 53 53 2.6 44 43 50 67 61 51 C 39 37 40/ 1.1 5.3 51 65 45 38/ 62 35 74 63 45 0 33 44 79 67 32/ 1.4 5.1 54 54 54 52 37 37 58 48 28/ 27 2.9 33 33 62 26/ 1.3 15 27 49 23 .2 1.6 11 31 $\mathbf{I}\mathbf{I}$ 22/ 19 20/ 15 18/ 17 11 6 6 16/ 15 . 2 12/ 10/ TOTAL 13.156.826.6 626 625 625 625 Element (X) No. Obs. Mean No. of Hours with Temperature 51519 82.410.5/3 23148 37.0 7.414 21943 35.1 7.034 Rel. Hum. 4316159 625 10F # 32 F 890314 801267 Dry Bulb 25,4 626 93 Wet Bulb 625 32.0 93 680898 20020 32:0 7:968 45.8 625 93

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DATA PROCESSING BRANCH . USAF ETAC AIR WEATHER SERVICE/MAC PSYCHROMETRIC SUMMARY 2 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 PAGE 1 0300-0500 WET BULB TEMPERATURE DEPRESSION (F) 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 - 31 54/ 53 (50/ 49 22 41 22 .5 4.1 .3 4.2 .8 6.7 .9 5.3 23 11 27 38 42/ 41 40/ 39 47 72 64 64 29 59 59 38/ 37 36/ 35 34/ 33 32/ 31 30/ 29 28/ 27 57 44 94 45 65 45 65 56 47 58 76 50 8.0 76 56 42 73 50 40 39 40 33 17 44 23 26/ 25 24/ 23 2.7 0 26 26 12 21 17 22/ 21 20/ 19 5 10 17 15 6 18/ TI 5 13 14/ 10/ TOTAL 641 21.251.615.4 1.6 641 641 | Mean No. of Hours = th Temperature | ≥ 67 F | ≥ 73 F | ≥ 80 F | ≥ 93 F Element (X) Ne. Obs. 85,7 9,693 35,6 7,395 54925 Rel. Hum. 641 ≤ 32 F 22849 33.1 Dry Bulb 349469 641 21912 34.2 7.076 20306 31.7 7.880 781088 641 36.4

PSYCHROMETRIC SUMMARY AIR WEATHER SERVICE/MAC RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 0600-0600 HOURS (L. S. T.) Temp. WET BULB TEMPERATURE DEPRESSION (F) 1 TOTAL TOTAL 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 22 23 - 24 25 - 26 27 28 29 - 30 31 5 - 6 Bulh Wat Bulb Dew Poin 54/ 53 8 1.1 . 2 10 10 48/ 47 .6 46/ 45 2.5 2.0 35 35 20 8 .6 43 43 16 42/ 41 99 99 70 45 39 61 65 61 62 38/ 3.6 47 69 8,1 74 74 58 33 5.0 1.4 55 82 70 61 61 66 71 3.3 30/ 29 31 3[62 27 39 47 26/ 25 2.0 19 19 21 45 24/ 23 17 17 22/ 21 10 10 14 20/ 14 18/ 17 14/ 13 10 10/ 87 16.858.321.8 642 642 .642 Element (X) Ž x' No. Obs. 53917 84\010.016 23378 36\4 7.387 22272 34.7 4.916 4592413 886274 Rel. Hum. 642 ≥ 67 F ≥ 73 F ≥ 80 F ≥ 93 F 1 32 F Dry Bulb 642 26,8 93 Wet Bulb 803312 642 32,3 93 20480 3149 7.552

DATA PROCESSING BRANCH USAF ETAC

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

35032 RHEIN-MAIN APT

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

STATION STATION NAME

PAGE 1 0900-1100

MOURS (L. S. T.)

Tem	р.						WET	BULB	TEMPER	ATURE	DEPRE	SSION (F)						TOTAL	T	TOTAL	
(F)		0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 22	23 - 24	25 - 26	27 - 28	29 - 30	e 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Poin
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52/	51		.5		1.4	.9				 -					 	 	 	 	25	25	10	
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40/	39		2.5		1.6	. 8				 	 			 	} -		 	 -	56	56	60	64
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36/	35	. 3	2.6			•2			 	 	 				 		 	 	40	40	66	51
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Rel. Hu		3386487		3386487 45773		73	71,3	13,8	52		42	± 0 F		z 67	F	73 F	≥ 80 F	- 93	F	Total		
Dry Bu	lb			3275		271	35 .	42.3	7.5	33	. 6	42			9.6							93
Wei.Bu			97	7920	,	246	96	38,5	:6,5	01	.6	42			15,6							93
Dew Po	eint		74	5221		212	95	33,2	7.7	27	. 6	42			40.1							93

DATA PROCESSING BRANCH USAF ETAC AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

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PAGE 1

1200-1400 HOURS (L. S. T.)

Temp.						WET	BULB	TEMPER	ATUR	DEPR	ESSION	(F)						TOTAL	<u> </u>	TOTAL	
(F)	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 1	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	2 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Poil
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62/ 61				.3	. 8	•5	.6			1	·	†	<u> </u>				 	14	14	i	i —
60/ 59]	1	1.7	. 2	1.1		5	1	j	ļ	1]	1 1	1		1	29	29	1	1
58/ 57		1	•3		.6	•6				1	1	1	 	1			l	14	14	1	
56/ 55		1		.5	1.7	1.2	.3	}		1	1	į	ì		1		ì	24	24	7	}
54/ 53			• 3	1.1	1.7				 	 	1-	 					1	23	23	25	
52/ 51		.2	.6		1.1	1.1	.2		1	l	İ	!	ĺ				1	36	36	15	1
50/ 49		.3		3.6	2.3	1.2			1	 	1	1					i	59	59	38	8
48/ 47		1.4	3.1	2.3	2.6	1.1	.3	.3		1	1	Į	1		ı		[72	72	45	18
46/ 45	 -	1.9	2.8	1.9	2.8	1.1				1	1	1	1	11			1	68	68	57	18
44/ 43		2.2	2.2	2.6	2.3	.5			ļ			ļ		1			1	64	64	73	27
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Element (X)	Σx²		L	Z _X -		' 	÷ ¥	· · ·		No: C		r'	<u></u>	S	Mean M	o, of H	ours wit	h Tempera	ture		
Rel. Hum.			1729		395		61.2				547	≤ 0	F	≤ 32 F	≥ 67		73 F	> 80 F	≥ 93	F	Total
Dry Bulb			9786		301		46.6				47	-	- -	3.9		9		1	1	`	93
Wet Bulb			4821	1	263		40.8				547	 		9,6		-		 	 		93
Dew Paint			3444	1.	213		33.1				547			39.8	 			+			93
and the second second				1	48.			1 777	-		- T 1'	1						<u> </u>		L	

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C DATA PROCESSING BRANCH . USAF ETAC **PSYCHROMETRIC SUMMARY** 2 AIR WEATHER SERVICE/MAC RHEIN-MAIN APT GERMANY/FRANKFURT MAR 1500-1700 PAGE 1 WET BULB TEMPERATURE DEPRESSION (F) 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | + 31 D 8. W.B. 76/ 75 74/ 73 . 2 C •2 •5 72/ 71 68/ 67 11 11 18 66/ 65 . 8 •5 18 .3 0 . 3 64/ 63 21 11 62/ 61 11 .6 .8 18 59 .3 18 0 58/ 57 •5 20 20 56/ 55 22 13 53 17 54/ 25 • 6 O 30 30 52/ 51 90 90 50/ 49 16 .6 2.4 3.5 3.2 38 47 48/ 3.2 60 60 12 2.2 2.2 2.7 1.7 2.2 2.7 43 77 76 76 22 46/ • 2 43 28 44/ 61 421 41 53 50 2.4 1.1 .3 37 37 74 56 39 76 47 58 57 29 38/ 37 29 36/ 35 33 15 15 61 34/ 10 10 58 14 37 29 27 30/ 2 59 0 28/ 25 26/ 25 2 2 23 21 24/ 22 0 19 16 18/ 17 0 167 6 14/ 13 G 10/ No. Chs. 20F Dry Bulb -Wet Bulb

7.00

DATA PROCESSING BRANGH USAF ETAC PSYCHROMETRIC SUMMARY AIR WEATHER SERVICE/MAC 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 1500-1700 TOTAL TOTAL
D.B. W.B. Dry Bulb Wet Bulb Dew Poin WET BULB TEMPERATURE DEPRESSION (F) 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 = 31 1.312.621.020.322.212.8 3.8 3.6 634 634 634 0 No. Obs. Mean No. of Hours with Temperature Element (X) 37835 59.716.521 30173 47.6 8.816 634 2430641 1485171 ≤ 32 F Rel. Hum. 3,2 .634 26206 41.3 6.947 21094 33.3 8.550 634 Wet Bulb

DATA PROCESSING BRANCH USAF ETAC PSYCHROMETRIC SUMMARY 2 AIR WEATHER SERVICE/MAC 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 57-76 1800-2000 WET BULB TEMPERATURE DEPRESSION (F) 0 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 = 31 D.B. W.B. Dry Bulb Wer Bulb Dew Poin 68/ 67 66/ 65 64/ 63 • 2 60/ 59 16 16 58/ 57 56/ 55 54/ 53 23 23 52/ 51 30 50/ 48/ 47 13 54 4.8 68 68 55 43 65 28 101 52 **(**) 40/ 39 2.0 3.4 34 73 60 2.5 38/ 37 47 47 69 35 54 .36/ 1.9 70 22 59 34/ 33 1.2 22 . 8 32/ 31 25 59 1.2 1.5 25 10 27 18 44 28/ 6 27 5 31 13 20/ 14 16/ 15 14/ 5 12/ 11 107 8/ 2.324.832.822.11.3 4.8 No. Obs. 44490 68.914.926 27946 43.3 7.941 3207716 646 ≤ 32 F ≥ 67 F + 73 F 7.9 1247622 646 25210 39.0 6.934 93 1014822 14.3 Wet Bulb 646 21416 33.2 8.377 646

DATA PROCESSING BRANCH USAF ETAC AIR WEATHER SERVICE/MAC

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

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PSYCHROMETRIC SUMMARY

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2100-2300 HOURS (L. S. T.) PAGE 1 TOTAL WET BULB TEMPERATURE DEPRESSION (F) TOTAL D.B. W.B. Dry Bulb Wet Bulb Dew Poin 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 22 23 - 24 25 - 26 27 - 28 29 - 30 2 31 2 58/ 57 8 8 56/ 54/ 53 15 15 49 49 1.1 3.8 2.6 2.1 11 50/ .6 26 42 42 48/ 3.7 28 461 45 49 43 44/ 76 76 60 41 39 .8 6.4 4.3 .6 4.0 3.8 41 42/ 61 75 49 61 57 57 57 57 68 37 62 58 55 33 1.1 2.2 3.5 45 45 73 58 34/ 3.8 45 37 72 . 8 21 21 48 .2 2.1 30/ 29 2.1 1.1 12 27 12 44 287 35 26/ 1.0 11 10 22/ 21 19 . 8 20/ 11 2 18/ 17 16/ . 2 13 14/ 10/ 8/ TOTAL 6.444.035.410.2 3.2 627 627 627 627 0:26-5 (OL Element (X) Mean No. of Hours with Temperature 48705 48705 77.712.077 24850 39.6 7.475 3874675 1019864 Rel. Hum. 627 ± 32 F ≥ 67 F ≥ 73 F > 80 F ≥ 93 F 15.7 Dry Bulb 627 23163 : 36:9 :7:07.7 20694 : 33:0 (8:319 93 Wet Bulb 887053 627 22.4

DATA PROCESSING BRANCH USAF ETAC AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76
STATION HAME
PAGE 1 0000-0200
HOURS (C. S. T.)

Dew Point			9718			36 3	36.7	6.8	05		94			27.6		_					90
Wei Bulb			2777		236	27	39.8	6.2	26		94			13.5		+		 	- 		90
Rel. Hum. Dry Bulb		100	3071 7815		472 252	23	79.5	4.0	20		94 94	± 0 F		32 F	2 67	F	73 F	> 80 F	÷ 93	<u> </u>	Tetal 90
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2/ 21				<u> </u>																	
6/ 25	• 2				İ										j			1	1	4	2
28/ 27	1.3	1.0							<u> </u>									14	14	19	4
32/ 31 30/ 29	1.0				-				 			 						31	31 12	24	5
34/ 33	• 5	2.5	1.2															26	26	38	4
38/ 37 36/ 35	1.7			• 1						! !					ļ			40	40	47	5
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46/ 45	• 5				.5													79 50	79 50	48 72	34
8/ 47	. 3	2.5	3.7	1.3	.2													48	48	42	2
52/ 51 50/ 49	. 5	1.9	3.7		.3					 								19	19 49	15 26	-1
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52/ 61		1.72	3.7	7.0	/	• 2	11 - 12	13:14	13 - 16	1/ 10	17 - 20	21 - 22	23.24	23 - 28	27 - 28	29 - 30		1	1		000
Temp. (F)	0	1.2	3 - 4	5.6	7 - 8					DEPRE			23 . 24	25 . 24	27 . 28	20 . 30	. 31	D B. W.B.		TOTAL	Dew Pa

0 DATA PROCESSING BRANCH 3 PSYCHROMETRIC SUMMARY USAF ETAC 2 AIR WEATHER SERVICE/MAC RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 ΛPR 0300-0500 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL (F) D.B. W.B. Dry Bulb Wet Bulb Dew Poin 0 1-2 3-4 5-6 7-8 9-10 11-12 13-14 15-16 17-18 19-20 21-22 23-24 25-26 27-28 29-30 -31 76/-74 58/ 57 36/ 55 <u>54/ 53</u> 52/ 51 .5 1.1 2.6 .1 3.9 2.6 10 O 50/ 49 49 70 49 70 40 45, 47 16 53 46 44/ 43 52 52 36 5.4 3.6 4.9 2.0 42/ 41 55 39 61 61 62 C 66 82 38/ 37 37 37 56 36/ 35 41 49 33 34/ 33 () 32/ 31 42 42 46 64 2.1 52 37 30/ 29 19 19 31 24 22 28/ 27 2.3 22 0 12 26/ 25 8 24/ 23 3 609 6.7 1.1 610 15.952.523.6 609 609 **(3**) ŝ 50904 83.610.872 No. Obs. Element (X) Mean No. of Hours with Temperature USAFETAC 4326731 Rel. Hum. 609 ≤ 32 F >67 F = 73 F = 80 F = 93 F 13.6 1047546 939357 818954 24914 40.8 7.018 23601 38.8 6.378 90 610 609 90 Wet Bulb 21540 36.0 6.851 609

DATA PROCESSING BRANCH PSYCHROMETRIC SUMMARY USAF ETAC 2 AIR WEATHER SERVICE/MAC 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 0600-0800 PAGE 1 WET BULB TEMPERATURE DEPRESSION (F) \mathcal{L} 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 - 31 D.B. W.B. Dry Bulb Wet Bulb Dew Poin 64/ 63 60/ 59 7 1 7 C 58/ 57 5 .6 54/ 53 26 .2 1.4 26 • 8 . 3 1.8 30 30 25 75 1 75 50/ 49 1.1 2.4 5.0 1.0 44 53 21 47 53 3.4 4.0 4.3 3.4 64 63 32 46/ 1.8 . 2 59 43 58 90 70 76 5.9 5.5 1.8 4.2 3.2 1.3 90 42/ 41 56 67 39 56 66 .8 4.8 2.3 .2 2.7 1.0 71 38/ 37 52 52 64 2.7 25 65 50 36/ 26 26 52 77 (i 34/ 33 1.0 2.1 1.0 23 61 32/ 12 12 36 13 13 30/ 29 .5 1.6 37 10 28/ 27 10 26/ 25 17 • 5 16 24/ 23 22/ 21 20/ 19 9.037.933.012.9 5.3 1.8 623 622 (3 622 622 ಠ Element (X) 48482 27044 Rel. Hum. 3884588 77.9137043 622 ± 32 F 267 F 273 F 280 F 293 F 3.6 43.4 6.864 90 1203264 - Dry. Bulb 623 90 Wet Bulb 1040194 25152 40.4 6.101 8.4 90 Dew Point 22798 .. 36.7 6.733

DATA PROCESSING BRANCH ' **PSYCHROMETRIC SUMMARY** USAF ETAC AIR WEATHER SERVICE/MAC 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 PAGE 1 0900-1100 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL femp. 1 - 2 | 3 - 4 | 5 - 6 | 7 - 6 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 | 28 | 29 - 30 D 5 W 8 Dry Bulb, Wet Bulb Dew Poin 1 76/ 75 .2 1 72/ 71 70/ 69 .3 .5 68/ 67 66/ 65 •3 .2 64/ 63 62/ 61 25 1.6 60/ 59 1.3 1.4 58/ 57 33 .3 33 1.6 44 44 <u>56/</u> 53 53 54/ 53 2.6 3.1 46 .6 53 53 49 3.7 84 84 50/ 3.7 3.1 • 3 1..3 45 45 0 61 69 2.4 61 46/ 45 3.2 47 58 44 44/ 43 1.3 1.6 44 64 29 67 42/ 41 1.8 4.7 2.9 1.0 64 O 63 40/ 39 اوول 2.7 13 72 38/ 37 13 35 2 35 15 33 31 32/ 29 27 33/ 28/ .26/ 25 24/ 23 .22/ 21 20/ 19 3 TOTAL 1.810.624.124.419.510.6 5.0 2.6 1.3 622 623 622 622 0.26-3 (10 2 Element (X) Meen No. of Hours with Temperature Rel. Hum. 39362 63,315,354 67.2 FOF 1 32 F 2637340 247 F 273 F 280 F 31273 50:3 7.512 27556 44:3 5.767 Dry Bulb 1607387 672 •1 Wet Bulb 1241592 90 622 23326 37.5 6.787 90 903370 622

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DATA PROCESSING BRANCH OUSAF ETAC AIR WEATHER SERVICE/MAC

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PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

STATION NAME

PAGE 1 1200-1400
HOURS (C. S. T.)

WET BULB TEMPERATURE DEPRESSION (F) 1.2 | 5 4 | 5 6 | 7 8 | 9 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 | 22 | 23 - 24 | 25 - 26 | 27 | 28 | 29 - 30 | • 31 | D.B. 82/ 81 80/ 79 78/ 77 78/ **77** 76/ **7**5 .2 68/ 67 25 66/ 65 64/ 63 62/ 71 81 65 63 51 55 58 51 48/ 46/ ग 35 38/ 46 34/ 33 30/ 26/ 25 24/ 23 22/ 21 20/ 19 18/ 17 Wet Culb

DATA PRUCESSING BRANGH USAF ETAC PSYCHROMETRIC SUMMARY AIR WEATHER SERVICE/MAC 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 £ 1200-1400 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 24 25 - 26 27 28 29 - 30 21 D.B. W.B. Dry Bulb Wet Bulb Dew Point TOTAL 616 616 1.1 7.312.214.619.515.311.4 8.1 6.0 3.1 1.1 .3 616 (G 0 , O Element (X) No. Obs. 2001918 33434 54.317.449 616 20F Ret. Hum. ≥ 67 F × 73 F × 80 F 33655 54.6 8.911 Dry Bulb 1887567 616 28487 46.2 6.024 22852 37.1 7.189 616 90 Wet Bulb 1339705

DATA PROCESSING BRANGH USAF ETAC AIR WEATHER SERVICE/MAC PSYCHROMETRIC SUMMARY 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 1500-1700

Temp.										DEPRE								TOTAL	1	TOTAL	
(F)	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	4 25 - 2	6 27	28 29 - 3	30 2 31	D.B. W.B.	Dry Bulb	Wet Bulb	D
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78/ 77										.5	.2							4	4		T
76/ 75						1)	.2		.6)		1	1)	i	5	5		
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72/ 71		į				l			.3	.8	.2	5		1	í	ł	i	11	11		ļ
70/ 69		i				.2		• 5		1.0	.2	• 3		1				23	23		Ī
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64/ 63	ļ	ļ			.2	1.0	1.6	1.3	1.1	1	i					i		32	32	1	
62/ 61				.6	.5	.6	1.8	1.0										28	28	I	Г
60/ 59				1.3		2.6	2.1	1.0		Į		l			-			50	50	7	
58/ 57			1.0	.3	2.7	1.8	1.0		.3					<u> </u>				52	52	5	Γ
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Dry Bulb								<u> </u>					<u> </u>		1	1					
Wet Bulb.				l	-	. []		1	. 1		- 1							1	1	1	

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

STATION NAME

Temp. WET BULB TEMPERATURE DEPRESSION (F)

(F) 0 1-2 3-4 - 7-8 9-10 11-12 13-14 15-16 17-18 19-20 21

PSYCHROMETRIC SUMMARY

PAGE 2 1500-1700 HOURS (L. S. T.)

Temp.						WET	BULB 1	TEMPER	ATURE	DEPRE	SSION	F)						TOTAL		TOTAL	·
(F)	0	1 - 2	3 - 4	7,7.	7 - 8								23 - 24	25 - 26	27 28	29 - 3	0 , 31		Dry Bulb		Dew Poi
14/ 13								1							-		1		524		624
OTAL	1.0	0.5	10.7	10.7	1103	1301	12.0	9.0	1.1	2.7	201	1.0				 		624	324	624	024
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Element (X)		2χ ²	4512	,	2 X	22	X 52.4	18.	22	No. 0	24			- 22 F				h Tempero			Total
Rel. Hum. Dry Bulb		196	1596		345	26	55.3	9.0	72		24	_ ± 0	-	≤ 32 F	12		2.73 F	≥ 80 F	6 - 93		9(
Wet Bulb		136	5373		289	51	46,4	5.9	65		21,				 ••	-		<u> </u>	-		9(
Dew Point		87	1849		228	47	36.6	-7.5	31	6	24			25.2	1			 			9(

AC FORM 0.26-5 (OLA) FENGE MENOUS FORIONS OF THIS FORM ARE ONSOLITE

DATA PROCESSING BRANCH * USAF ETAC AIR WEATHER SERVICE/MAC

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PSYCHROMETRIC SUMMARY

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 1800-2000 PAGE 1 HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) TOTAL D.B. W.B. Dry Bulb Wet Bulb Dew Pain 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 28 29 - 30 21 82/ 81 80/ 79 2 .2 . 2 2 76/ 75 74/ 73 72/ 71 . 3 г 68/ 67 1.0 14 14 66/ 65 16 .3 16 64/ 63 . 5 .8 16 26 26 60/ 59 40 40 58/ 31 1.5 56/ 40 50 50 51 52/ 2.5 2.6 2.5 2.5 56 46 1.2 56 2.0 66 78 24 57 77 46/ 45 54 37 38 44/ 43 .7 2.5 75 63 50 50 40/ 39 1.7 1.3 22 22 50 61 38/ 35 57 35 36/ 52 18 54 32/ 31 27 36 28/ 13 26/ 14 24/ 23 22/ 21 20/ 19 14/ 13 Ile. Obs. Element (X) Rel. Hum.

DATA PROCESSING BRANCH + **PSYCHROMETRIC SUMMARY** USAF ETAC AIR WEATHER SERVICE/MAC 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76
STATION NAME 1800-2000 WET BULB TEMPERATURE DEPRESSION (F) 1 . 2 3 . 4 5 . 6 7 . 8 9 . 10 11 - 12 13 . 14 15 . 16 17 - 18 19 . 20 21 . 22 23 . 24 25 . 26 27 . 28 29 . 30 . 31 D.B. W.B. Dry Buib Wet Buib Dew Poin 606 TOTAL 2.115.517.217.817.213.2 8.1 5.1 2.0 1.7 .2 606 606 C 0 G. Mean No. of Hours with Temperature Element (X) 2453796 36938 61.018.285 606 10F ≤ 32 F Ret. Hum. 267 F 273 F 280 F 293 F 30961 51.1 6.277 26960 44.5 5.908 22349 36.9 7.223 Dry Bulb 1623265 -606 1220524 606 Dew Point

O DATA PROCESSING BRANCH PSYCHROMETRIC SUMMARY USAF ETAC 2 AIR WEATHER SERVICE/MAC 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 2100-2300 WET BULB TEMPERATURE DEPRESSION (F) TOTAL 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 | 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | 23 | D.B. W.B. Dry Bulb Wer Bulb Dew Point 8 64/ 63 8 62/61 1.2 16 .5 56/ 55 .8 1.7 40 1.3 40 45 52/ 51 .2 1.2 2.7 2.0 1.0 45 6 37 50/ 49 5.0 4.3 88 21 48/ 47 2.3 4.3 2.0 60 1.2 44 35 49 2.3 2.3 4.3 1.8 54 63 64 71 55 41 40/ 39 1.3 2.0 3.3 65 38/ 37 3.3 1.7 27 27 50 () 36/ 35 .3 2.2 1.7 15 32 55 62 32/ 31 .2 1.7 39 30/ 29 28/ 27 31 26/ 25 24/ 23 20/ 19 13/ 17 16/ 15 598 598 3.327.132.818.213.5 598 598 43181 72,214,458 Rel. Hum. 598 ≤ 32 F 27488 Dry Bulb 1292918 46.0 7.016 598 2,4 Wet Bulb 1072727 25075 41.9 5.973 598

DATA PROCESSING BRANCH **PSYCHROMETRIC SUMMARY** USAF ETAC AIR WEATHER SERVICE/MAC 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 0000-0200 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 1-2 3-4 5-5 7-8 9-10 11-12 13-14 15-16 17-18 19-20 23-22 23-24 25 26 27 28 29-30 -31 66/ 65 . 3 11 11 23 33 12 33 82 64 47 82 78 66 63 65 76 71 1.3 3.7 1.0 39 42/ 49 22 23 38/ 37 36/ 35 10 18 34/ .33 13 32/ 31 30/ 29 617 617 TOTAL 13.947.525.1 6.9 3.4 1.0 617 No. Obs. 52026 84.3L1.613 4469950 617 ≤ 32 F 30977 50.2 6.564 29497 47.8 5.979 28046 45.5 6.492 1581759 1432189 617 617

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

DATA PROCESSING BRANCH USAF ETAC AIR MEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

																					(L. S. T.)
Temp (F)										DEPRE			1	1	T			TOTAL		TOTAL	10 0
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Element (X)		ZXL	3924		Z x 549	7.5	87.3	0 2	43	No. 01								h Tempero			
Rel. Hum.			3747								29	2 0	F	± 32 F	≥ 67		73 F	> 80 F	+ 93	F	Total
Dry Bulb			7906		305	10	48.3	16.6	08		29			1.2		•4		1			93
Wet Bulb		139	207.2				46.6				29			1,5				↓			93
Dew Paint		128	9200		.281		4471		77	6	29			4.3			_	<u> </u>			93
- a roe			202			-5.5	100	5. 7. W	,	7. 7				,							

C DATA PROCESSING BRANCH PSYCHROMETRIC SUMMARY USAF ETAC 2 AIR WEATHER SERVICE/MAC RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 WET BULB TEMPERATURE DEPRESSION (F) 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 - 31 D.B. W.B. Dry Bulb Wet Bulb Dew Poin 2 72/ 71 70/ 69 68/ 67 9 13 13 27 29 66 60/ 59 37 60 60 C 70 70 29 46 56/ 68 68 52/ 95 89 79 79 80 0 59 59 84 48/ 70 43 27 27 90 41 39 28 36 40/ 26 36/ -35 34/ 33 32/ 31 30/ 29 28/ 27 635 635 635 No. Obe. Mean No. of Hours with Temperature Element (X) 49864 635 33533 52.8 6.274 31315 49.3 5.424 Dry Bulb 1795761 635 Wet Bulb 635 29205 46.0 6.085

2 AIR WEATHER SERVICE/MAC 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 07-76 0900-1100 PAGE 1 WET BULB TEMPERATURE DEPRESSION (F) 0 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 28 29 - 30 31 D B. W.B. Dry Bulb fer Bulb Dew Point 80/ 79 78/ 77 76/ 75 74/ 73 72/ 71 8 .3 R 14 14 . 31 .3 16 16 70/ 69 24 24 68/ 67 43 .6 2.7 66/ 65 14 3.4 64/ 63 62/ 61 64 55 55 60/ 59 58/ 57 83 83 10 60 56/ 55 33 1.1 49 94 41 49 53 1.4 52/ 51 32 32 70 58 50/ 49 94 42 72 56 48/ 47 12 12 46/ 45 83 44/ 43 55 26 . 5 6 • 2 16 51 36 40/ 39 18 36/ 35 19 32/ 31 15 TOTAL 638 638 .8 8.616.321.020.717.6 8.2 4.2 1.3 638 638 O Element (X) 40272 ≥ 67 F ≥ 73 F > \$0 F ± 32 F 638 Dry Bulb 16.8 2307713 638 93 1789688 33606 52.7 5.537 638. 29624

DATA PROCESSING BRANCH + USAF ETAC

PSYCHROMETRIC SUMMARY

DATA PROCESSING BRANCH + USAF ETAC AIR WEATHER SERVICE/MAC

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PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 MAY
STATION NAME YEARS MONTH

PAGE 1 1200-1400

Tomp				-					RATURE								TOTAL		TOTAL	
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72/ 71						8			1.0	,2							38	38		į
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Wes Bulb		183	7764		·338	48	53.7	5,5	27		30				• 3					
Dew Point		132	7472	I	286	10.	45.4	6.6	97	6	30			3,2				T	T	1

DATA PROCESSING BRANGH
USAF ETAC
AIR WEATHER SERVICE/MAC

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76
STATION NAME

PSYCHROMETRIC SUMMARY

WET BULB TEMPERATURE DEPRESSION (F) 3 . 4 5 . 6 7 . 8 9 . 10 | 11 - 12 | 13 - 14 | 15 - 15 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | x 31 | D.8. W B. Dry Bulb | Wer Bulb Dew Po. 86/ 85 84/ 83 .6 10 10 .2 82/ 81 10 80/ 79 8 18 78/ 77 18 23 2.9 73 29 74/ .5 71 36 36 70/ 42 67 58/ 1.1 .5 2.2 3.0 1.8 1.6 1.9 2.1 66/ 65 3.0 1.3 61 61 60 60 62/ 61 52 52 36 60/ 59 41 73 45 45 \overline{n} 58/ 57 38 38 82 56/ 55 53 30 30 93 21 21 **5**8 46 20 50/ . 6 1.1 48/ 47 71 46/ 45 1.0 61 44/ 43 54 42/ 41 40/ 39 16 38/ 37 34/ 33 32/ 31 21 30/ 29 28/ 27 TOTAL .8 6.2 8.611.810.513.416.515.5 7.8 4.3 2.2 1.1 626 626 Element (X) No. Obs. 1982078 626 40228 64.2 8.517 33902 54.2 5.382 Dry Bulb 2626418 36.3 627 93 626 Wet Bulb 28511 45,5 6,719

PORM 0.26-5 (OLA) REMAID REPROVE EDITIONS OF IMS FORM ARE ORGORET

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AFETAC FORM 0.26-5 (OLA

DATA PROCESSING BRANCH & USAF ETAC AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76
STATION NAME

PAGE 1

Temp.			,				BULB .										TOTAL		TOTAL	
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I. Hum.			1654		392	40	62.1				32	10		32 F	≥ 67 F	≥ 73 F	* *0 F	- 93 F		Total
y Bulb			9373		380		60,2				32		-		18.2	3.4	1.2			9
et Eulb			9685		333		52.4				32		_		•3			+		9
ew Point			6002		291		46.2				32			2,5			 	†		- <u>-</u>

DATA PROCESSING BRANCH USAF ETAC AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERM: NY/FRANKFURT 07-70 INAY
STATION STATION NAME

PAGE 1 2100-2300
HOURS (C. S. T.)

Temp.										DEPRE								TOTAL		TOTAL	
(F)	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 23	21 - 22	23 - 24	25 - 26	27 28 2	9 30	• 31	D.B. W.B	Dry Bulb	Wer Bulb	Dew Por
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62/ 61		. 8	1.3	1.4	1.4	. 8		ļ		i								36	36	8	1
60/ 59	6	2.5	3.0	4.2	1.6	1.1	. 2	<u> </u>							i_		1	84	84	17	
58/ 57	• 3			1.7	1.4	۰2		Ī										55		48	1
56/ 55	.9	3.9	3.1	2.2	, 9	.3		<u> </u>		l								73	73	73	29
54/ 53	. 8	3.1	3.5	3.8	.8			Ī	1								Ī	76	76	90	- 5
52/ 51		3.5	4.4	, 9	.6	. 2	Ĺ		L									61	61	66	3
50/ 49	• 2	3.6						i										75	75	96	•0
48/ 47	. 3	2.7	1.9	.5	.3		l			l		li	_	ĺ			l	36	36	68	6
46/ 45		4.2	1.4	1.1]	ĺ		Ī								43	43	57	7
44/ 43	. 5	1.7	.6	. 2		<u> </u>		l		1	1						l	1.	19	52	6
42/ 41	• 2	1.1	.6						Ī	1								12	12	26	6
40/ 39	. 2	.6						l	1		[<u> </u>				5	5	19	3
38/ 27			I	i —	i	i T			1	i -										7	1
36/ 35		l	<u> </u>		l .	1	L			l		<u> </u>			[L	<u> </u>	<u> </u>	2
34/ 33			T				1	1							Ĭ			T			1
32/ 31		l	l		<u> </u>	J	<u> </u>	1			İ						<u> </u>				1
30/ 29		ī]			1							Ī			1]
28/ 27		<u> </u>	İ	<u> </u>		<u> </u>	<u></u>	L		<u> </u>		<u> </u>						1	<u> </u>	i	<u> </u>
TOTAL	3.9	30 , 5	28.1	20.8	10.8	4.6	1.1	.2	Γ	[\tilde{l}			[i	636		63
		I	<u></u>			i	<u></u>	!		1	<u></u>	<u> </u>						636	<u> </u>	636	<u> </u>
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			Ĺ			1	_		<u> </u>	<u>i</u>				<u> </u>			1	<u> </u>			<u> </u>
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	. سود سرد				<u></u>	<u></u>		<u> </u>	<u></u>	<u> </u>	<u> </u>	<u>i </u>					<u></u>		<u> </u>		<u></u>
Element (X)		ΣX,			za		X	",		No. O								h Tempera	ture		
Rel. Hum.			2528		485			13.4			36	± 0 1		± 32 F	≥ 67		73 F	> 80 F	= 93 1	F	Total
Dry Bulb			1753		345			6.2			36				3.	2	•1				9
Wet Buib			3293		320			5.4			36										ç
Dew Peint		141	0352		296	80	46.7	50.3	10	. 6	36			1.6		7					9

DATA PROCESSING, BRANCH & USAF ETAC AIR WEATHER SURVICE/MAC

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USAFETAC

PSYCHROMETRIC SUMMARY

350%2 RHEIN- DAIN APT GERMANY/FRANKFURT 07-76

PAGE 1 0000-0200

HOURS (L. S. T. T.

WET BULB TEMPERATURE DEFRESSION (F) TOTAL TOTAL 1-2 3-4 5-6 7-8 9-10 11-12 13-14 15-16 17-18 19-20 21 22 23-24 25-26 27-28 29-30 231 D.B. W.B. Dry Bulb Wet Bulb Dew Point 76/ 75 1 74/ . 2 71 70/ 69 19 68/ 67 1.3 2.5 8 63 2.0 13 61 32 2.6 4.8 3.8 78 51 33 60/ 59 4.5 58/ 57 74 52 69 69 79 73 2.0 3.1 1.8 1.0 4.6 3.1 59 56/ 55 2.1 56 56 . 8 58 58 65 58 73 52/ 2.5 48 48 72 1.0 4.1 1.0 5.6 86 50/ 66 66 58 47 3.8 33 55 33 48/ 1.2 46 46/ 45 44/ 43 58 2.0 20 43 41 8 13 46 42/ 40/ 39 38/ 37 10 3 3 3 6 36/ 35 . 3 34/ 33 10.941.526.013.9 4.6 3.0 605 605 605 605 Element (X) No. Obs. 50257 4259389 83.111.833 Rel. Hum. 605 ≠ 73 F > 80 F 1903925 1707633 .55.7 6.724 .52.8 5.730 Dry Bulb 33695 90 605 31955 90 Wet Bulb 605 Dew Point 1557107 30493 50.4 5.784 90 605

PSYCHROMETRIC SUMMARY

YEARS PAGE 1 0300-0500

Temp.						WET	BULB .	TEMPER	ATUR	E DEPRE	SSION (F)							TOTAL		TOTAL.	
(F)	0	1 . 2	3 - 4	5 - 6	7 - 8	9 - 10				6 17 - 18			23 - 24	25 - 2	6 27 -	28 2	n - 30	≥ 31		Dry Bulb		Dew Point
70/ 69					.3	• 3				1		i ——		-	-	7			6	6	i	
68/ 67		1		.7		.3	. 2]			į				10	10		İ
66/ 65	• 2	.5	.8					_		1					-				23	23	1	1
64/ 63	. 3	1.2	.7		.3	ļ	1			1 !		i		1	!				20	20	10	3
62/ 61		2.7			1	ì	1			1		-		1	1			i	42	42	15	T 8
60/ 59	1.3	5.0	2.5	2.2	.3		j					İ			ļ	-			68	68	46	36
58/ 57	1.0				. 2					1		1			1	_		i	57	57	66	32
56/ 53	2.2		3.0	1.3	. 2		į					} 		1	[1		ļ	70	70	75	57
54/ 53	1.2									7 - i		1			1	7			56	56	68	
52/ 51	1.0		1.8	• 2			İ			1 1		ĺ		1		İ		Į	53	53	77	78
50/ 49	3,3	6.7	3.2	.2	i .	<u> </u>	ļ					1			1	T			80	80	62	110
48/ 47	_ ,5	4.5	1.0											<u> </u>					37	37	61	57
46/ 45	1.3 1.2	5.5	• 3																43	43	56	62
44/ 43	1.2	1.7	.3									<u>i</u>							19	19	34	54
42/ 41	•7	. 2																	7	7	14	29
40/ 39	,7						<u> </u>							<u> </u>					6	6	7	13
38/ 37	.5				}						_			1					3	3	4	10
34/ 33	2				ļ		└			<u> </u>		 						<u> </u>	1	1	1 1	1
TOTAL	16.1	40.0	20.8	10.1	3.0	• 7	.3	.2		i l		1		i		- 1		}		601	1	601
							<u> </u>					<u> </u>		<u> </u>	1	_ _			601		601	<u> </u>
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Element (X)		ZX2	نـــبــ		ZX	┺	 	-	۲-	No. Ob	. !	<u> </u>	<u> </u>	<u> </u>		00 No	of 14	0014 711	h Temperat	u-0		<u> </u>
Rel. Hum.			8590		518	78		10.8		6		± 0	F	≤ 32 F		67 F		73 F	2 80 F	≥ 93	F	Total
Dry Bulb			7393		325		56.2	6.4	57	-6				- 32 -	- 	2.		. , , ,	+		- 	90
Wet Bulb			7834		311	92	51.9	-5.6	22	6					+-		- -		 	-		90
Dew Point			0544		300	142	50.0	5.6	04	6					+		+-		 	+		90
			Y277			سلفت	2414		<u> </u>		<u> </u>											

DATA PROCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 JUN
STATION STATION NAME YEARS MONTH

PAGE 1 0600-0800

Temp.											SSION (TOTAL		TOTAL	
(F)	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B. W.B.	Dry Buib	Wet Bulb	Dew Po
82/ 81											.2							1	1		
80/ 79									 	.2								1	1		
78/ 77						} !		• 2			.2						•	4	4		
76/ 75								• 2										2	2		; !
74/ 73					.3	•2											İ	10	10	[
72/ 71					.3	•6	.3		•2	<u> </u>								9	9	ļ <u>.</u>	
70/ 69	_	•2		•6	.5	1.0	•2	١ ـ		i .	1							15	15		
68/ 67	• 2		.6	.8	. 8		.2			 							<u> </u>	25	25	2	
66/ 65	• 2	.2 1.6			1.3					1								40 60	40 60	6	
64/ 63	. 3		2.1	3.4	1.1	•2		 	 									59	59	57	1
60/ 59	.3			4.2	1.3									İ				102	102	71	4
58/ 57	• 2		3.9			•3	 	 		 		<u> </u>					 	68	68	74	5
56/ 55	.5			2.1	1.00	1 .3	1		1	1								54	54	89	6
54/ 53	•2	3.2	4.8		.2	 	 	├─	 	 	 							64	64	84	3
52/ 51	.3			.3	•	[l		1	}	! !						44	44	66	8
50/ 49	• 5	1.9	1.9				_	 	 	 	-						 	31	31	75	9
48/ 47	. 3	1.6	1.0			ĺ	İ										Ì	18	18	43	4
46/ 45	• 2		• 2						!	1								9	9	23	6
44/ 43		.6						1]							4	4	13	3
42/ 41				_																I	3.
40/ 39							L	<u> </u>								_				<u> </u>	,
38/ 37							l													1	
DTAL	3.1	27.9	31.3	20.8	8.4	4.7	1.5	1.1	.8	.2	.3								620		62
ļ						Į	-	1			l	ll			i		l	620		620	į
		<u> </u>					ļ	<u> </u>	<u> </u>	<u> </u>	ļ									ļ	
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Eiement (X)		Σχ²			z _X	\Box	X	٠,		No. C					Mean N	lo. of H	ours wi-	h Temperal	ure		
Rel, Hum.			6842		474	16	76.5	13,3	66		20	± U F		32 F	≥ 67		73 F	≥ 80 F	≥ 93	F	Total
Dry Bulb			597.		364		58.4	6.4	52		20					.7	2.6	• 3	3		9
Wet Bulb			5641		337		54.5	5.0	40		20					3					- 9
Dew Point		162	8115		315	93	51,0	3.4	30	6	20		\perp			1		L			9

AC FORM 0.26-5 (OLA) HVISTO MENOUS

DATA PROCESSING BRANCH; USAF ETAC AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

STATION STATION NAME

PAGE 1 0900-1100
HOURS (L. S. C.)

Dev Point			7439		319		51.2				23		+		301			 	1		90
Dry Bulb Wet Bulb	 		9661 1057		405	85	65.1 57.3	5.2	35		23				38.		15.3	3,8	4		90 90
Rel. Hum.	ļ		1620		391		62,8	15.6	91		23	± 0	F :	32 F	≥ 67 F		73 F	- 80 F	≥ 93 1	F T	Total
Element (X)		Σχ²	<u> </u>		Σχ		X	€ g		No. Ol				نــــــن 	Mean No	. of H	ours wit	h Temperat	tyre		·
																				 	
	1.09	0,2	1300	.7.0		.407	-	7.0		-	1.0	••	1.0	• 2				623		623	02.
36/ 35 DTAL		9 2	12 4	10 4	10.6	14 9	9.6	z 0	2 4	1 0	1 7		1.0	•2					623		62
40/ 39 38/ 37							 											 		ļ	1
42/ 41							ĺ			İ											2
44/ 43										<u></u>										2	3
46/ 45		• 5								 	 		}					3	3	9	4
50/ 49 48/ 47		•3		• 3														7	7	46	11
2/ 51	<u></u>	.8		.6		<u> </u>	<u> </u>]				17	17	42	
4/ 53	.3		1.3		.6													26	26	69	6
56/ 55	.2	•	1.3							Ì	1				1			33	33	84	5
0/ 59 8/ 57	.2			1.3						 								51 46	51 46	76 78	5
2/ 61		1.0	1.3	2.9	1.8	1.0												52	52	87	2
4/ 53		1.0	1.0	4.0	2.2	1.8		• -			1							04	64	63	
8/ 67	. 2	•2						.3	• 2									72 57	72 57	19	
70/ 69	أ أ	•2																54	54	2	
72/ 71			.3		1.6	1,4	1.3	.6		.2								34	34		
74/ 73	 		• 2	.5	.3				.6	.6	.2							34	34		
78/ <mark>77</mark> 76/ 75						• 3		•6	1.0						-			18	18 23		l
80/ 79							.3	.3	.2	.2		•2						7	7		
32/ 81								.3	.2	.3	•5	•2	•2	i				9	9	 -	├
86/ 85 84/ 83									•2		.2	•3	•3	li	1			6	5 5	[
88/ 87													.3					2	2		
90/ 89	 	<u>-¹ :</u>	3-4	3.0	/	9 . 10	111 . 12	13 - 14	13 - 16	17 - 16	19 - 20	21 - 22	• 2	•2	27 - 28 2	9 - 30	2 31	2.0.0	2	mer builb	Dew P
Temp. (F)		1.2	3 - 4	5 - 6	7.0		BULB						22 24	26 24	27 20 2	0 20	- 21	D.B. W.B.	Dev Bull	TOTAL	Da 0

DATA PROCESSING BR然化H USAF ETAC AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

YEARS

MONTH

PAGE 1 1200-1400 HOURS (L. S. T.)

Temp.											SSION (TOTAL		TOTAL	
(F)	0	1 - 2	3 - 4	5 - 6	7 . 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28 29	30 231).B. W B.	Dry Bulb 1	Ver Bulb	Dew Point
94/ 93											1				•2		1	1		
92/ 91														•7	.2	_	5	5		
90/ 89											.2		.2	• 7	• 5	1	9	9		
88/ 87										.2	i	• 2	.5				5	5	_	
86/ 85										.3		.5	•2				6	6		
84/ 83					<u> </u>				.5	.5	.5	.5		ll			12	12		i
82/ 81							• 2	• 7	.3	. 2	1.2	.3	• 2				18	18		
80/ 79							.5	.5	1.3	.8	.7	.3	.2	L		L	26	26	i	
78/ 77					.5	•5	1.5	2.0	2.8	1.0	.8						55	55		
76/ 75				. 3	. 3	• 5	15	2.0	.8		.2						34	34		
74/ 73			. 2	• 2	.3	1.0	2.5	1.2	.2	. 8	.2						39	39		
72/ 71				• 2	1.3	1.2	2.0	2.0	.5	.3							45	45	1	l
70/ 69		• 2	•7	• 5	1.2	1.7	.8	1.0	• 3								38	38	9	1
68/ 67			• 5	1.2	1.5		1.8	. 8	•2	<u> </u>	L			<u> </u>			51	51	21	1
66/ 65			1.3	1.0	. 8	1.5	2.5	.5									46	46	43	6
64/ 63		.3	1.7	1.0	1.5		1.5	. 2		l							48	48	76	8
62/ 61			1.3	1.2	1.5	.8	• 7		Ī								33	33	93	15
60/ 59		1.0	1.2	2.0	2.3	2.3	.3				<u> </u>						55	55	66	42
58/ 57	.5	1.3	1.3	1.0	2.5	• 3	.2			!							43	43	70	47
56/ 55		.3	. 8	. 5	.7	• 3					i	l					16	16	70	50
54/ 53	. 2		1.0	۰,5						i	İ						10	10	60	59
52/ 51		• 2	• 3	•2						Ĺ				i!			4	4	37	65
50/ 49		• 2	.3	.2									1				4	4	41	88
48/ 47									<u> </u>		<u> </u>	<u> </u>	<u> </u>						10	48
46/ 45		.2							1								1	1	6	49
44/ 43			1				<u> </u>												1	44
42/ 41		,			i		İ	ì	1		ĺ				i			- 1	- 1	55
40/ 39		<u> </u>						<u> </u>		<u> </u>	<u> </u>							↓		15
38/ 37		1	[]					l ·	l	1	ļ	ļ	l	1 1		1	1 1	1	i	8
34/ 33	 -							ļ	<u></u>	<u> </u>	<u></u> _	·	L				<u> </u>			2
32/ 31		_					L	Ĺ	_]			- 1	1
TOTAL	7	3.6	10.6	9.8	14.4	14.4	15.9	10.8	7.0	4.1	3.6	1.8	1.2	1.3	• 3			604		604
			İ .					ĺ	Ì	1							604		604	1
Element (X)		Σχ'	L	 	ž _X	<u> </u>	<u> </u>	T _K		No. Ol	. s.	L	L	L	Mecn No.	of Hours wit	i h Temperat	ure		
Rel. Hum.		197	6120		330	22	54.7	16.8	27	6	04	≤ 0	F	1 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	7	Total
Dry Butb			3567		415	31	68.8	8.9	13		04				51.3	21.3	10.4	•	I	90
Wet Bulb			1826		-352		58.3				04		_		4.6		1	1	1	90
Dew Paint			4370		.304		50.5				04			.1	• 3	·	T			90
			233				1,376													

PCEM (0.25-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBJOITTE

VFETAC roum 0.25-5

DATA PROCESSING BRANCH USAF ETAC AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHFIN-MAIN APT GERMANY/FRANKFURT 67-76

JUN

PAGE 1

1500-1700 HOURS (L. S. T.)

Temp							BULB T											TOTAL		TOTAL	
(F)	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	× 31	D B. W.B.	Dry Bulb	Wet Bulb	Dew Poin
92/ 91			Ĭ						I	i			<u> </u>	•2	1.0			7	7	 	
90/ 89						1				i .	_ , 2	• 2	l	1.0	.3		1	10	10	ĺ	ļ
88/ 87										•2	.2		.3				1	4	4		
86/ 85									İ	.3	•	• 7	.3		'!		!	8	8	!	
84/ 83				[- 					•2		.7	1.2	•5				i	16	16		1
82/ 81							. 2	1.0	.7			.3	.3				ļ	26	26	l	
80/ 79						•2	.7				.5							30	30		-
78/ 77				.2	.3		1 - 1				.2	. 3	ĺ	1 1			l	46	46	ł	ı
76/ 75				.3		•2				.3		• 2	i	1			 	31	31	i	†
74/ 73			• 2	.3					.2		_,2		ĺ		İ			42	42	1	İ
72/ 71			• 2														 	39	39	2	i
70/ 69		. 2	.3						.8		į .		ĺ				1	51	51	12	
68/ 67		.3												 				62	62	21	6
66/ 65		.3		1.3					'-	!								41	41	34	5
64/ 63		.8	·	1.6	1.3					 			i	 			1	52	52	87	
.62/ .61		1.2		.5	1.2				ļ	ŀ			1				ļ	28	28	94	13
60/ 59	. 2			1.8	1.3													37	37	83	45
58/ 57	. 2		1.0		1								İ	1 1				29	29	70	45
56/ 55	• 2																1	21	21	55	58
54/ 53		1.0								ì							ł	15	15	66	49
52/ 51		1.0							 									8	8	42	56
50/ 49	. 2							l			İ							4	4	30	105
48/ 47														1						7	65
46/ 45		. 2	i	. !		j !		i	j	}		i	İ	1 1			1	1	1	5	57
44/ 43								 		 				1			 			I	37
42/ 41			i l					l	Į	i							1				29
40/ 39										 											12
38/ 37			1 1		1 1	!!	'	1						i i			1	1 1		ł	10
36/ 35								$\overline{}$	_					† -			1			$\overline{}$	3
32/ 31				[]				1					ĺ	i						ĺ	ž
30/ 29														1							1
TOTAL	.7	8.6	7.7	11.3	11.0	11.2	12.6	13.2	8.1	5.9	2.8	2.8	1.5	1.2	1.3		l		608	1	608
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Element (X)		ZX,			ZX		X	0,		No. Ol	1.	·		لــــــــــــــــــــــــــــــــــــــ	Henn N	lo. of H	outs wit	Temperat	ura		
Rel. Hum.		205	2480		j34	54	55.0	18.6	77	6	08	10	F	≤ 32 F	£ 67	F	73 F	> 80 F	₹ 93 1	F	Total
Dry Bulb			7352		421		69.3				08		$\neg \vdash$		55.		32.6	11.7			90
Wet Bulb								1 7 7					-								90
MET OVID		211	0317	•	350	5 11 -	78 a·/	1341	5 7 1	0	ו אס		- 1	1				•			70
Dew Peint			0317 6078		356		58.7 50.8				08 08		+	.4	5.	19			 		90

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AFETAC FORM 8.24 E

DATA PROCESSING BRANCH A USAF ETAC AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

STATION NAME

PAGE 1 1800-2000
NOURS (L. S. T.)

WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 33 7 31 D.B. W.B. Dry Bulb Wer Bulb Dew Poin 90/ 89 .3 88/_87 86/ 85 10 84/ 83 82/ 81 80/ 79 . B 11 11 20 78/ 77 30 .6 76/_75 74/ 73 • 2 30 36 70/ 69 46 46 68/ 67 66/ 65 65 64 64 16 64/ 63 1.6 1.1 1.4 1.8 2.2 .8 2.1 2.4 62/ 61 43 80 12 60/ 59 58/ 57 58 58 83 47 50 39 76 1.0 1.3 66 58 60 58 77 23 52/ 51 1.9 10 10 88 1.0 16 56 46/ 45 44/ 43 39 42/ 41 40/ 39 38/ 37 TOTAL 1.913.812.511.715.813.310.7 7.0 5.6 3.2 625 625 38707 61.918.607 2613213 625 Rel. Hum. ≥ 67 F = 73 F = 80 F = 93 F 41152 65.8 8.708 35942 57.5 5.324 31958 51:1 6.192 625 2756896 2084614 625

USAFETAC FORM

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DATA PROCESSING BRANCH PSYCHROMETRIC SUMMARY USAF ETAC 2 AIR WEATHER SERVICE/MAC 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 WET BULB TEMPERATURE DEPRESSION (F) 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 × 31 D.B. W.B. Dry Builb Wer Builb Dew Point 82/ 81 80/ **79** . 2 . 2 .2 78/ 77 . 2 76/ 75 74/ 73 11 1.2 19 ., 1.2 2.0 2.5 .5 1.8 3.1 1.7 1.7 2.0 3.5 1.3 1.2 3.5 2.3 1.3 2.0 2 68/ 67 53 53 17 66/ 65 49 29 63 52 61 63 67 67 65 33 60/ 59 84 .8 2.3 2.1 1.3 56/ 55 54/ 53 62 76 50 .5 3.6 .5 3.1 3.6 2.6 1.2 71 65 52/ 2.8 50/ 49 1.2 32 60 94 3.5 48/ 47 18 45 56 1.8 18 18 44/ 43 39 42/ 41 40/ 39 24 5.623.925.119.811.9 7.1 3.5 1.3 1.3 606 606 606 606 Element (X) No. Obs. Mean No. of Hours with Temperature 45488 75.115.035 3551208 606 Dry Bulb 2209687 36331 60.0 7.223 606 16.9 55.2 5.359 51.5 57653 90 Wet Bulb 33471 1866069 606 90 31192

DATA PROCESSING BRANCH & USAF ETAC AIR WEATHER SERVICE/HAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

STATION STATION MAME

VEARS

PAGE 1 0000-0200
HOURS (L. S. T.)

Temp.	WET BULB TEMPERATURE DEPRESSION (F) 0 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 25 27 - 28 29 - 30 > 31																TOTAL				
(F)	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 25	27 - 28	9 - 30	> 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point
78/ 77								.2			j						1	1	1		
76/ 75			ĺ					. 2		l							l	1	1		_
74/ 73		• 2				• 3	i	• 2									!	4	4		
72/ 71			.3	.7	1.1		.2	.3		ĺ	!						ĺ	16	16	1	!
76/ 69		.7		• 5	1.1		•2			i	i						-	23	23	1	1
68/ 67	. 2	. 8	1.3	2.0		1.0		•2	.2	İ	i i	1		! i			1	38	38	9	3
66/ 65	• 3				.5	•2				i								51	51	25	11
64/ 63	1.3	4.7	2.5	2.8	. 3						ļ .						l	73	73	56	30
62/ 61	1.6		2.9				• 2											62	62	69	38
60/ 59	2.8	9.2	4.3	1.8	.7	• 3	[!		ļ	[,	[1	116	116	85	96
58/ 57	1.0	3.9	3.8	1.1	.7		i —											64	64	95	71
56/ 55	1.0	4.4	2.5	1.5		1]				1		. i			1	57	57	71	70
54/ 53	• 7	3.4	2.5	• 2														41	41	61	59
52/ 51		3.8	1.6	ŀ	!			Ì		ļ	ļ	ļ						33	35	57	74
50/ 49	. 3	2.5	1.6		i		<u> </u>	i			i ——			i			T	18	18	54	64
48/ 47	• 2	. 8		1	Ì		Ì	})	}]]	6	6	17	35
46/ 45	• 2	.7			i													5	5	6	34
44/ 43			İ		1	i		1						i				ļ		2	14
42/ 41	• 2	• 2	Ī	i	Ī													2	2	2	5
40/ 39				l	l	<u> </u>				<u> </u>		<u> </u>			1						5
28/ 37			i — -	i		i					i										1
TOTAL	9.7	40.4	27.2	13.4	5.1	2.0	.8	1.3	.2	<u> </u>	<u> </u>						<u> </u>	<u>i</u>	611		611
			i —		·			1										611	i	611	i
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							<u> </u>		<u> </u>	<u> </u>							<u> </u>	<u> </u>	<u></u>		<u> </u>
Element (X)		ΣX,			ZX		X	· **		No. O								h Tampero			
Rel. Hum.			7133		506			12.3			11	101	<u>- -</u>	32 F	≥ 67		73 F	≥ 80 F	2 93 1	<u> </u>	Total
Dry Bulb			9858		366			5,8			11				12.		•9	<u> </u>		<u> </u>	93
Wet Bulb			3815		347			5.1			11				1.			<u> </u>			93
Dew Paint		. 183	4047	1	332	97	54,5	5.6	53	. 6	11					6		l .	1		93

DATA PROCESSING BRANCH USAF ETAC AIR WEATHER SERVICE/MAC

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PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

STATION STATION NAME

PAGE 1 0300-0500
HOURS (C. S. T.)

WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | 2 3 | D B. W B., Dry Builb Wer Builb Dew Poin (F) 70/ 69 12 39 68/ 67 2.0 39 . 8 2.4 2.9 2.8 18 66/ 65 15 . 2 48 48 1.1 27 37 39 46 46 58 .3 73 73 62/ 61 2.4 5.4 2.1 .2 93 93 75 9.1 58/ 57 5.5 .3 66 66 71 2.1 82 78 56/ 53 78 70 59 59 82 54/ 53 2.9 58 35 35 61 39 39 58 84 50/ 49 .7 5.4 27 48/ 47 .7 1.3 10 33 11 46/ 45 .7 1.1 2 42/ 41 40/ 39 38/ 37 36/ 35 615 13.552.022.6 7.6 1.5 1.6 1.0 615 615 615 No. Obs. Element (X) Mean No. of Hours with Temperature Ŧ Rel. Hum. 4730357 53525 87.010.827 615 10F ≥ 67 F | 4 73 F ≥ \$0 F | ≥ 93 F 93 2102209 1940910 58.2 5.605 55.9 5.188 Dry Bulb 35791 615 7.7 Wet Bulb 34402 615 1.4 93 DATA PRUCESSING BRANCH PSYCHROMETRIC SUMMARY USAF ETAC AIR WEATHER SERVICE/MAC RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 WET BULB TEMPERATURE DEPRESSION (F) TOTAL 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 | 28 | 29 - 30 | • 31 82/81 80/ 79 78/ 77 8 . 2 .3 .2 74/ 73 72/ 71 • 6 20 .5 70/ 69 68/ 67 2.7 2.3 5.0 3.2 66/ 65 85 37 85 62 64/ 63 62/61 5.6 4.0 3.9 3.4 98 58/ 57 55 55 . 2.3 2.6 .0 3.1 1.9 .2 1.8 83 54/ 53 52/ 51 68 14 47 58 26 73 50/ 49 48/ 47 46/ 45 44/ 43 42/ 41 40/ 39 36/ 35 34/ 33 5.329.029.317.910.6 2.1 1.9 1.8 1.1 621 621 78.113.981 62.4 6.273 621 Dry Bulb 38752 2442624 621 93 36137 58.2 4.864

DATA PROCESSING BRANCH PSYCHROMETRIC SUMMARY USAF ETAC AIR WEATHER SERVICE/MAC RHEIN-MAIN APT GERMANY/FRANKFURT 0900-1100 PAGE 1 HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) Temp. TOTAL 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 - 31 D B- W.B. Cry Bulb Wer Bulb Drw Poin 92/ 91 5 90/ 89 88/ 87 .2 86/ 85 16 • 5 • 2 84/ 83 19 82/ 81 80/ 79 78/ 77 76/ 75 1.9 74/ 73 1.6 3.2 44 72/ 71 48 48 13 1.9 2.1 26 1.6 70/ 69 1.0 47 3.5 4.5 3.0 87 87 46 10 68/ 67 .8 1.9 1.8 1.6 1.1 50 50 67 21 66/ 65 3.5 1.8 61 102 34 64/ 63 75 1.9 45 1.6 62/ 61 1.4 .3 . 2 43 89 97 1.0 35 35 60/ 59 2.1 .6 1.4 1.0 .8 78 58/ 57 20 20 1.1 18 51 18 67 56/ 55 50 71 54/ 53 16 59 72 50/ 49 43 48/ 47 20 46/ 45 42/ 41 <u>40/ 39</u> 36/ 35 7.810.916.617.918.612.2 6.2 2.1 625 625 625 625 No. Obs. Mean No. of Hours with Temperature Element (X) ≥ 67 F | 62,915,543 2623563 625 ≥ 73 F | - 80 F + 93 F

625

625

925

58 2

13.4

31.1

93

93

E. 1802

Dry Bulb

Wet Bulb

43379

38152

6170 4,987

3050189

2344440

DATA PROCESSING BRANCH & USAF ETAC AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PAGE 1 1200-1400

Temp.											SSION (TOTAL		TOTAL	
(F)	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	· 31	D.B. W B.	Dry Bulb 1	ver Bulb	Dem Po
96/ 95					ļ		<u> </u>	i —		;	ļ			• 2	•2		• 2	3	3 (
94/ 93					<u> </u>		\ !	<u> </u>	<u>.</u>	<u> </u>	<u> </u>	1		.3		.3		4	4	!	i !
92/ 91					!		ļ	Ī			<u> </u>	.5	•2		.2	• 5		8	8 .		!
90/ 89					l	i	!	!	·	1	.5	.3	.5	.2	٠.٤)		_	11;	11		
88/ 87							i	- [1 .8	1.0	i	.3	• 2	!		.2		15	15.		:
86/ 85					<u> </u>	!	• 2	.5	1.2	1.2	.5	.3	.2	•2	• 2	•2		27	27	i	
84/ 83						• 2				1.2	.8		•2	• 2				30	30		
82/ 81					!	.3	1.0	1.3	1.7	, 5	.7		.2		<u> </u>			37	37		!
80/ 79				.2		. 2				.7	.3					i	į	35	35		
78/ 77				.2	.3		3.2							l			<u>. </u>	59	59		4
76/ 75				•2							.2		l	,]		, — - ,		44	44		
74/ 73				.7			100	1.5			<u> </u>							39	39	5	<u></u>
72/ 71			• 2		12.0		1.5	1.2			1	i		;				41	41	15	,
70/ 69		L	• 2					• 7		<u> </u>	<u> </u>	<u> </u>		<u> </u>				38	38	36	<u>. </u>
68/ 67		• 3	• 2			3.7			ĺ	j	ł		1			i	į	56		49	
66/ 65		. 8	. 3						L) -	<u> </u>	<u>!</u>					<u>!</u>	37		77	9
64/ 63	• 2	1.0			1 -		1		ł	ļ	ļ		Ì	!		į	1	46	46	98	S:
62/ 61		8					ļ	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>			<u> </u>	30	30	76	32
60/ 59		1.5				Į.	1	į	i	l	ļ	1		į			ļ	25	25	79	82
58/ 57		• 3				<u> </u>	 	 		ļ	 		<u> </u>	ļ			 	9	9	72	76
56/ 55		• 5		• 2	1	1]		İ	Ì	ļ		i				İ	4	4	35	
54/ 53		• 2			 	 	 -	}			 	ļ.——	<u> </u>	ļ						95	74
52/ 51 50/ 49				}	1	1	!	i	1	ĺ	1	1	Ì	1			}	i !		- 1	5
50/ 49 48/ 47		-	 	 	 	├	 		├──	 	i 					 					5
46/ 45				İ	1		i		1	•	İ	İ	•	\	•	. !	!		1	ļ	3
44/ 43			 -		<u> </u>	}	├	 	 	 -	 -				 	-		 	 +		1
42/ 41				i	1	1	1	1	1	1	1	1	}	1			1	1			i
40/ 39		<u> </u>	 	 	 		 -	 	 	 	 	 	<u></u>	 				 			-
38/ 37		}	i '	1	1	Ì	1	i	1	1	i	1	•	1	1		1	1	1		
34/ .33			 	 	 	 	 -	 	 -	 	 -	 		-	 	<u> </u>	 	 			1
OTAL	. 2	5.5	5.0	8.5	11.0	15.6	14.9	13.5	12.2	5.2	3.0	1.5	1.3	1.0	. 8	1.2	•2	1 !	599	- 1	59
					1	-						1	-	3.4.0				599		599	
Element (X)		Σχ'			z _x		Į,	•,		No. O	1	L	<u> </u>	L	Mean	lo. of He	ours wist	h Temperat			L
Rel. Hum.			9653		321	09	53.6				33	£ 0	F !	: 32 F	2 67		73 F	- \$0 F	- 93 F	Ţ	Total
Dry Sulb			8739		431		73.2				99		-		59		48.4				9
Wet Bulb			3129		370		61,8				99		_		16		.8		+		9
			5435				34.1			<i>;</i> 5						3 		·		~	9

C FORM 0.26-5 (OL.A) RENSEO MENOUS ERTONS OF THIS FOCM ARE C

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USAFETAC rom

DATA PROCESSING BRANCH USAF ETAC AIR WEATHER SERVICE/MAC

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PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PAGE 1 1500-1700
HOURS (C. S. T.)

Tanp. WET BULB TEMPERATURE DEPRESSION (F)

Total

Tanp.			,,							DEPRE						,		TOTAL		TOTAL	
(F)	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	'y - 20	21 - 22						D.B. W.B.	Dry Bulb	Wet Bulb	Dew Po
15/ 95													• 2	.3	• 2	e 2	• 5	8	8		
4/ 93											<u> </u>	- 2				•2	د و	4			<u> </u>
2/ 9									_	1	_	• 3		• 2	• 2	.2	i	5	5		ĺ
0/ 89			!				ļ		2	<u> </u>	.5	•6	<u>, 3</u>	<u>6.</u>				14	14		
8/ 87	:						į (.6			.3	_		_	.3		19	19	, i	i
6/ 65						<u>, 2</u>	<u></u>	• 5	1.5		.6	,6	.2		• 5	-2		47	47		
4/ 83					.3	• 2		, 3		.5	. 8		• 2			1	[21	21		
2/ 87		ļ				ļ. <u></u>	.6	2.4	1.6	3.2	. 8	 		ļ		 	<u>!</u>	54	54	·	ļ
0/ 79		ł			.3	•6	0	2.7	1.0	.3	.3					ļ	}	60	40		ļ
8/ 77		<u> </u>					1.6	1.9	2,3		 	ļ		 		 		42	42		
6/ 75			ا ا	• 5	• 2	•5	2.1	2.7	.6		1	 		ļ .		ļ	į	41	41	4 2	
4/ 73	 -	├	_ <u>•5</u>		, ,	2.4	100	1.3	1.0	 		<u> </u>		 		 		40 57	57	20	
2/ 71 0/ 69		1		. 5	1.1 2.1	1.6	2.7	1 0		'								45	45	41	
0/ 69 8/ 67		- 2	1.5	1.9								 		 		 		69	69	63	
		1.1			1.5	1.5			1	1	1			\		1	1	33	33	77	1
6/ 65 4/ 63		8.	.5	.6	1.0	1.5		•2	 	 	 -			 		 	 	35	30	107	3
2/ 61		.8			,5	,3		1			ļ							23	23	82	3
0/ 59	. 3				.5	• • •		<u> </u>	 	 	 	 		 -		 	 -	17	17	76	8
8/ 57	• •	.5				ļ				1	i	İ				i	İ	8	8	71	a
6/ 55		.2		7.5			 	i	 	 	 			 		 			<u>-</u>	43	5
4/ 53	. 2	1			\	1	1	1	}	1	1	1	}	1		ĺ	1	2	2	28	
2/ 31			i		i		1		1	1						1				6	7
0/ 49		ł		1	1	İ	l	Ì			ļ					1			i	i i	7
8/ 47		1	Ţ -	-	!			T			Π-) — —									3
6/ 45		1					i .	ļ			i				İ	1	ļ		i	j 1	3
4/ 43			Γ					į	T	T^{-}		Γ					1				1
2/ 41			Ì	i	<u></u>	· 	<u> </u>	<u> </u>	<u> </u>	1		<u> </u>	l	<u>l</u>		<u></u>] 	ll			<u> </u>
0/ 39	[Ī												
8/ 37		L	<u> </u>				<u></u>				<u> </u>										
6/ 35		1										1		1	i					1	
4/ 33		<u> </u>				<u></u>			<u></u>			 			<u> </u>	L			احجب	<u> </u>	<u></u> _
TAĻ	•5	4.8	5.0	7.1	8.2	13.5 '	14.0	16,3	11.	8.1	4.2	2.1	.8	1.3	.8	1.0	•8	620	620	620	66
ement (X)		ZX,		_	z x		X	· ·		No. O	bs.				Mean	No. of H	ours wit	h Temperat	Ure		-
I. Hum.			6850		323	20	52.1	16.6	71	6	20	= 0	F	± 32 F	≥ 67	F	73 F	> 80 F	≥ 93 F	F T	Total
ry Bulb			0768		461	40	74,4				20				75	.9	50.3	27.6	1	9.	9
et Bulb			4478		386		62.3				20				19	.5	.9				9
									==1												

DATA PROCESSING BRANCH USAF ETAC AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 JUL
STATION STATION CARS MONTH

PAGE 1 1800-2000

Temp.								EMPER										TOTAL		TOTAL	
(F)	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 22	23 - 24	25 - 26	27 28	29 - 30	> 31	D.B. 7.B	Dry Bulb	Wet Bulb	Dew Point
94/ 93															.2			1	1		
92/ 91															.2	.2		2	2		
90/ 89										.2				• 2	•2	•2		4	4		
88/ 87									. 2	. 3		•2	. 2	• 2	_			6	6		<u>.</u>
86/ 85								. 2	.5	.3	.7	.5		• 2	•2	. 2	i	16	16		
84/ 83							. 8	.5	.8	. 3	, 5				.3			20	20		
82/ 81					. 3	.3	1.3	1.5	.8	. 8	•5	.2						35	35		
80/ 79					.2	. 8		1.8	1.3		.3	• 2						30	30		
78/ 77					. 3	. 8		3.3	1.6	.2		• 2						58	58		j
76/ 75			• 2		.7		2.3	1.0				• 2		<u> </u>			<u> </u>	38	38		
74/ 73				1.0			1.0	2.0										38	38	5	
72/ 71		. 2	. 2	. 7	2.1	1.5	1.8	1.0	_ ,3								<u> </u>	47	47	14	i
70/ 69		• 2		.7	2.6	1.1	2.5	• 5	. 2			i						47	47	28	3
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64/ 63	• 3	2.0				1.1	. 5											51	51	96	33
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60/ 59	1.0	1.6			1.2	•2	 											48	48	74	84
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36/ 35											<u> </u>	 			 -		ļ				2
34/ 33							L	۱		۱		_	_	ļ _ i						ĺ	3
TOTAL	2.3	7.7	6.5	11.9	15.2	13.4	17.2	12.4	5.9	2.1	2.0	1.3	.2	•5	1.0	.5			612		612
																		612		9 j S	ĺ
Element (X)	Zx Z No. Obs. Mean No. of Hours wi										ours with	th Temperature									
Rel. Hum.									73 F	> 80 F	≥ 93 F	f	Total								
Dry Bulb			6301		433	23	70.8	8.0	40	6	12				62.	5	37.7	14.9	1	.2	93
Vet Bulb			8853		374			4.9		6	12				13.	7	• 8	l	1		93
Dew Peint			7309		.334			6.2			12				2.				1		93
· · · · ·						. 4	25.00														

FORM 0.26-5 (OLA) REVISE MENOUS EDITIONS OF THIS FORM ARE O

USAFETAC FORM

USAF ETAC AIR WEATHER SERVICE/MAC 82/ 81 80/ 79 787 77 76/ 75 74/ 73 70/ 69 66/ 65 64/ 63 62/ 61 60/ **5**9 0

> 43 42/ 41 40/ 39

DATA PROCESSING BRANCH

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 2100-2300 PAGE 1

WET BULB TEMPERATURE DEPRESSION (F) 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | 21 D.B. W.B Dry Bulb Wer Bulb Dew Poin . 2 12 . 2 19 19 .8 29 . 5 29 1.1 • 2 36 36 3.3 • 2 77 77 1.3 2.4 4.1 3.4 3.6 3.1 2.3 2.3 1 4.4 2.5 36 66 1.3 2.8 3.6 2.1 66 84 88 105 1:1 69 69 81 72 .7 1.5 2.6 2.0 44 38/ 57 44 35 78 2.1 2.9 35 56/ 55 61 .8 1.3 18 18 55 61 54/ 53 40 52/ 51 50/ 49 54 . 5 40 48/ 47 46/ 45

611 611 611 Element (X) 45066 73.814.139 611 267 F 273 F 280 F 3445922 64.3 6.205 59.1 4.786 55.2 5.634 39284 33.6 93 Dry Bulb 2549236 611 93 93 2147479 Wer Bulb 36105 611

33756

DATA PROCESSING BRANCH USAF ETAC AIR WEATHER SERVICE/MAC

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PSYCHROMETRIC SUMMARY

AUG 0000-0200 HOURS (L S. T.) PAGE 1 WET BULB TEMPERATURE DEPRESSION (F) TOTAL

(+)	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 24	25 - 26	27 - 28 2	9 - 30	2 31	D.B. W.B.	Dry Bulb	Wet Bulb	Daw Par
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70/ 69			• 3	<u> </u>	.8		2	1	İ					ļ				8	8	}	
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66/ 65	.2	2.0 5.2	3.1	1.1	1.3		<u> </u>			<u> </u>		j				1		47	47	23	le
64/ 63	2.0	5.2	1.8	2 • 1	. 8		1	ļ										75	75	54	42
62/ 61	1.3	3.7	2.3	1.3	1.0		<u>i </u>				_					j		59	59	66	38
60/ 59	2.8	11.9	6.2	3.9	1.0	•2		1 .	"	i i								159	159	67	70
58/ 57	1.5	6.0	3.1	1.1	.3	<u> </u>	<u> </u>											74	74	114	89
56/ 55	• 3	4.9	1.8	1.1	.2	l	1	i .		! [51	51	90	78
54/ 53	3	4.6	1.3	. 5	.2	ļ	<u> </u>	<u> </u>		!								42	42	77	58
52/ 51	• 1	2.6	.8				1							i				26	56	55	81
50/ 49		2.1	.3			<u> </u>		<u> </u>										15	15	34	62
48/ 47		1.3	Ì				1											8	8	19	41
46/ 45	• 3	1					 	ļ						i				2	2	8	28
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42/ 41 38/ 37	. 2						ļ	<u> </u>							i_			1	1	1	10
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Rel. Hum.			1433		315	23	83.9	11.2	76	61		± 0 F	7	32 F				Temperati	7		
Dry Bulb	******		4706		365		59.6	5.12	77	61		207	- - -	32 F	≥ 67 F	≥ 73		- 80 F	≥ 93 F		otol A
Wet Bulb			1257	······································	348	5	56.8	4.74	0	61					8.2		•6		┼	_	93
Dew Point			2740				56.5	5,39	20	61			-		. 8	 			 		93
							-11-			V I	PP 1					1			1	1	u 2

DATA PROCESSING BRANCH PSYCHROMETRIC SUMMARY UŠAF ETAC AIR WEATHER SERVICE/MAC 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 0300-0500 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 0 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 70 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 x 31 D.8 - W.B. Dry Bulb Wer Bulb Dew Point 74/ 73 70/ 69 68/ 67 25 25 33 33 66/ 65 10 3.3 4.3 3.2 64/ 63 74 48 42 57 57 57 28 70 60/ 59 4.1 5.9 3.8 72 89 95 74 67 5.7 2.2 72 100 56/ 55 72 79 <u>53</u> 63 63 75 52/ 51 46 69 43 50 43 31 15 46/ 45 44/ 43 12 10 40/ 39 34/ 33 TOTAL 22.045.221.0 9.1 1.3 .6 629 629 629 Element (X) 4942631 55351 88.010.695 629 ≥67 F ≥ 73 F ≥ 80 F ≠ 93 F 36274 57.7 5.210 35000 55.6 5.000 33962 54.0 5.562 36274 Dry Bulb 2108946 629 Wet Bulb 1963234 629

The second secon

DATA PROCESSING BRANCH USAF ETAC AIR WEATHER SERVICE/MAC

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PSYCHROMETRIC SUMMARY

WET BULB TEMPERATURE DEPRESSION (F) Temp. (F) TOTAL 0 | 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 | 28 | 29 - 30 | > 31 D.B. W B. Dry Bulb Wet Bulb Dew Point 78/ 77 76/ 75 74/ 73 72/ 71 70/ 69 .2 18 .8 3.5 50 68/ 67 50 65/ 65 .8 1.1 2.5 1.1 53 53 31 12 47 ·62/ 61 ·60/ 59 71 4.3 3.3 2.1 1.4 30 74 109 3.0 58/ 57 110 70 56/ 55 2.8 36 79 36 53 71 50 4.4 1.6 3.3 48 97 50/ 49 48/ 47 33 65 12 35 19 46/ 45 2 44/ 43 42/ 41 40/ 39 11.835.222.414.210.4 4.1 1.9 634 634 634 Element (X) Mean No, of Hours with Temperature 4324389 51649 81,513,583 Rel. Hum. 634 ±0F ± 32 F ≥ 67 F × 73 F 38650 61:0 5:642 36493 57:6 4:704 34806 54:9 3:324 93 Dry Bulb 2376334 634 15.1 634 93 93

C FORM 0-26-5 (OLA) REVISIONE

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DATA PROCESSING BRANCH USAF ETAC AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

651

93

651

Mean No. of Hours with Temperature

54.9

67 F = 73 F = 80 F = 93 F

RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 0900-1100 WET BULB TEMPERATURE DEPRESSION (F) TOTAL 90/ 89 88/ 87 86/ 85 . 8 10 16 82/ 81 80/ 79 20 32 78/ 77 39 39 49 47 2.3 66 66 70/ 69 94 94 3.2 2.2 1.5 3.7 3.2 50 50 100 100 100 45 97 41 23 23 68 50/ 49 46/ 427 40/ 39 38/ 37 TOTAL

651

651

2.8 9.714.618.116.912.010.8 7.8 4.6

44576

65,415,928 68,5 6,803

39644 60.9 4.397

Element (X)

2946409

3082344

2 AIR WEATHER SERVICE/MAC 35022 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 WET BULB TEMPERATURE DEPRESSION (F) 0 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 22 23 - 24 25 - 26 27 - 28 29 - 33 3 1 D.B. W B. Dry Bulb Wet Bulb Dew Poin 96/ 95 94/ 93 92/ 91 90/ 89 88/ 87 1.0 € .0 86/ 85 84/ 83 .3 1.0 2.2 .3 . 3 . 2 80/ 79 78/ 77 1.6 1.4 .2 75/ 75 74/ 73 72/ 71 2.1 1.4 2.4 1.4 70/ 69 68/ 67 . 2 1.9 1.6 2.9 66/ 65 .8 2.1 .5 1.6 1.3 1.0 1.1 .64/ 63 62/ 61 .6 1.0 • 5 60/ 59 1.3 • 3 56/ 55 54/ 53 52/ 51 50/ 49

PSYCHROMETRIC SUMMARY

45963

72.9

15.8

267 F 273 F 280 F 293 F

47.8 21.2

54,216.853 73.2 7.617 628 38926 62.0 4.486

48/ 47 46/ 45

34/ 33 5.4 7.0 5.312.415.613.412.3 9.6 9.4 4.0 3.5 TOTAL

DATA PROCESSING BRANCH

USAF ETAC

2022211 3400391 Dry Bulb 2425410

40/ 39

Element (X)

£ DATA PRUCESSING BRANCH USAF ETAC PSYCHROMETRIC SUMMARY 2 AIR WEATHER SERVICE/MAC 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 1500-1700 HOURS (L. S. T.) WET BULB TEMPERATURE DEPRESSION (F) Temp. (F) TOTAL € 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 9 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 2 31 0.8- W.B. Dry Bulb Wer Bulb Dew Poir 96/ 95 94/ 93 92/ 91 3 90/ 89 88/ 87 23 23 .6 2.2 .8 1.3 Ŀ 48 1.0 86/ 85 48 84/ 83 .6 1.1 1.0 28 28 82/ 87 33 80/ 79 78/ 77 .3 1.3 1.9 1.9 1.1 2.5 1.0 3.6 51 75 51 75 3.6 1.9 76/ 75 1.3 49 49 74/ 73 72/ 71 .0 42 42 15 .5 1.4 1.1 1.1 2.9 .8 54 70/ 69 1.0 .6 1.0 68/ 67 1.0 66/ 65 37 37 97 1.3 1.0 90 45 64/ 63 27 27 62/ 61 20 97 60/ 59 .3 1.3 17 65 . 3 57 58/ 57 66 50 56/ 55 54 54/ 53 68 90 52/ 51 89 48/ 47 41 44/ 43 42/ 41 40/ 39 38/ 37 TOTAL .6 3.5 6.8 7.0 9.212.514.711.610.110.5 4.6 5.7 2.1 631 631 631 51.916.699 74.4 7.853 .62.3 4.309 1877011 32765 ≥ 67 F = 73 F = 80 F = 93 F Rel. Hom. 631 Dry Bulb 46927 77.2 53.2 22.5 93 3528777 631 Wet Bulb 2458634 39294 631

DATA PROCESSING BRANCH PSYCHROMETRIC SUMMARY USAF ETAC 2 AIR WEATHER SERVICE/MAC 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 1800-2000 PAGE 1 WET BULB TEMPERATURE DEPRESSION (F) TOTAL 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 - 31 D.B. W.B. Dry Buth Wer Buth Dew Poin 88/ 87 .3 . 2 86/ 85 11 C 84/ 83 11 .8 18 18 80/ 79 19 19 • 6 • 2 78/ 77 76/ 75 (49 49 .6 .8 76/ .6 2.7 .8 40 40 2.4 1.4 56 56 73 56 56 21 70/ 69 60 60 2.2 3.9 .3 1.7 40 68/ 67 1.7 •5 71 66/ 65 46 46 96 70 70 47 64/ 63 2.2 1.1 2.7 2.2 1.4 81 39 . 8 52 52 62/ 61 109 81 60/ 59 2.2 42 42 1.7 12 12 88 72 58/ 56/ 55 11 71 11 1.4 46 53 53 82 52/ 51 50/ 49 75 36 47 48/ 46/ 45 21 13 44/ 43 42/ 41 13 40/ 39 5 34/ 33 32/ 31 633 633 TOTAL 633 633 Element (X) Mean No. of Hours with Temperature 2604975 39161 61.916.982 69.2 6.971 60.6 4.540 Rel. Hum. 633 267 F 273 F 280 F 10 F 43809 58.5 30.1 Dry Bulb 3062667 633 93 38376 Wet Bulb 2339592 633 9.7 93 Dew Paint 34545

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DATA PROCESSING BRANCH USAF ETAC AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

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AUG

PACE 1

2100-2300 HOURS (L. S. T.)

Temp.										DEPRE								TOTAL		TOTAL	
(F)	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B. W.B	Dry Bulb	Wet Bulb	Dew Point
82/ 81										.2							i —	1	1		
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76/ 75					• 2												i	5	5		
74/ 73			• 2	.3	1 -			i	. 2	i								13	13		
72/ 71				.9			•2	. 3		 							 	30		-	
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TOTAL	4.7	24.9	24.8	20.1	12.7	9.1	2.2	1.3	• 2	.2				<u></u>			<u> </u>		638		638
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Element (X)		Z X2	L		ZX		¥	·,		No. Ol	5.			<u> </u>	Meon N	o of H	ours wit	h Temperat	ure		
Rol. Hum.		380	0431		484	27	75.9	13.9	86		38	± 0	F	± 32 F	≥ 67		73 F	- 80 F	≥ 93	F	Tetal
Dry Bulb			8210		402	60	63.1	5.2	66		38			- -	25.		3.5				93
Wet Bulb		210	5566		373		58.5				38		\dashv		2			 	'		93
Dew Point							35.0	+	ớ											 -	93
		194	6712		.250	17NI. 4	99.1	1/5 - 4	361	. A	38				1.						71

DATA PROCESSING BRANCH PSYCHROMETRIC SUMMARY USAF ETAC 2 AIR WEATHER SERVICE/MAC 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 0000-0200 PAGE 1 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 28 29 - 30 - 31 6 68/ 67 66/ 65 1.0 64/ 63 38 38 59 60/ 59 6.1 1.3 1.8 54 60 37 54 1.8 4.5 80 58 80 <u>5</u>6 55 80 59 68 6.1 3.0 U.5 1.5 5.5 0 52/ 51 63 67 50/ 49 60 67 83 60 45 55 1.5 3.8 1.0 38 38 48/ 47 54 49 40 46/ 45 40 45 29 31 2.3 2.8 2.3 2.2 43 44/ 43 31 27 27 57 (:6 40/ 39 9 6 38/ 37 36/ 35 . 3 34/ 33 32/ 31 25.154.714.8 4.2 1.2 602 602 602 6021 (OL A) 2 x 54213 Element (X) Mean No. of Hours with Temperature 4928749 90.1 8.806 602 Rel. Hum. ≥67 F = 73 F = 80 F = 93 F Dry Sulb 1703853 31799 32.8 6.340 602 30852 51,2 5,990 30048 49,9 6,126 90 Wet Bulb 1602700 602

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DATA PROCESSING BRANCH USAF ETAC AIR WEATHER SERVICE/MAC RHEIN-MAIN APT GERMANY/FRANKFURT

PSYCHROMETRIC SUMMARY

0300-0500 PAGE 1

Tem	р.						WE.	T BULB	TEMPER	ATUR	DEPRE	SSION	(F)						TOTAL		TOTAL	
(F		0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	113 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	1, 25 - 26	27 - 28	27 - 3	0, -31	D.8. W.B.	ry Bulb	Wer Bulb	Dew Poin
68/	67				•2		 		i		i			1		1		1	1	1		:
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60/	59	1.5		.8	.7	•2		 	 !		<u> </u>		 	 -			 		48	48	28	
58/		1.1			.2	-	1	1							1	1		†	43	43	50	
36/	55	3.1			.8	i	 				 		i		 	 			63	63	63	50
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Elemen	nt (X)		ZX'			ZX		7	·,		No. Ob	s.				Meon P	No. of	Paury wit	h Temperatu			***********
Rel. H	vm.		531	0021		560		92.9	7.3	49	6	12	± 0	F	≤ 32 F	≥ 67	F	₹ 73 F	≥ 80 F	1 93 F		Total
Dry Bu	ılb		163	8050	-	314		51.3	.6.5	97		12				1	.1			T		90
Wer B	ilb			6522		307		50.2	6.2	54		12		_		1	7	,	1	 	\neg	90
Dew P				0767		301		49.3	6.2	10		12		7		†	_			1		90
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35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 0600-0800 WET BULB TEMPERATURE DEPRESSION (F) 0 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 2 31 DB. W.B Dry Bulb Wet Bulb Dew Poin 72/ 71 68/ 67 . 2 12 .2 1.6 66/ 65 .8 . 8 12 64/ 63 .3 1.6 1.9 2.4 5.8 3.6 62/ 61 26 26 60/ 59 58/ 57 84 84 1.8 55 4.1 2.1 1.8 54/ 53 64 3.7 65 75 81 66 611 61 86 80 48 58 48 51 46/ 45 81 3.9 45 18 18 2.8 1.3 26 55 40/ 39 8 | 12 38/ 37 6 36/ 35 34/ 33 TI 25.347.620.1 5.7 1.1 616 616 616

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2x 54897

32728

31655 30734 89.1 9.539

53.1 6.318

51.4 5.785

4948303

1763382

1647265

PSYCHROMETRIC SUMMARY

≥ 67 F | ≥ 73 F | > 80 F

DATA PROCESSING BRANCH .

AIR WEATHER SERVICE/MAC

USAF ETAC

2

Dry Bulb

DATA PRUCESSING BRANCH USAF ETAC AIR WEATHER SERVICE/MAC

2

PSYCHROMETRIC SUMMATY

35032 RHEIN-MAIN AFT GERMANY/FRANKFURT 67-76

SEP

PAGE 1

0900-1100

Temp.											SSION (TOTAL		TOTAL.	
(F)	0	1 - 2	3 - 4	5 - 5	7 - 8	9 - 13	11 - 12			17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 28	29 - 3	30 + 31	D B. W.B	Dry Bulb	Wet Bulb	Dew Poir
62/ 81			[]			1		.3						;				2	2		
80/ 79			l i	i '	ļ	.2			l		į l	! !	i	1	1			1	1		İ
78/ 77						• 5		.3					ĺ				1	7	7		
76/ 75		l '			.3		2			})))	1			1] !	5	5	!	
74/ 73			<u> </u>		.3	• 3	.5		.2	;					i	†	1	8	8	1	1
72/ 71!	i	, ,	• 2	.5	1 -				1	Ì)		ĺ	})	1	} '	12	12		1
70/ 69			.5			•3				 	 			 - -	 -	 	_	20	20	2	
68/ 67			1.1	3.1	1.8	1.8	.5	.5	1		1		l	i	İ			54	54	8	l I
66/ 65		.6	1.0			•6	.2	.2	1			<u> </u>		 	 			39	39	13	1
64/ 63		2.1							1	1	i '	j !	i					75	75	39	16
62/ 61	• 3								†	 	 	† <u>†</u>		 -	1	†		77	77	53	22
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54/ 53	1.0					-		 		 -						 	-i	40	40	99	45
52/ 51	• 2		2.7		.2	ĺ		[1		i		l		ł	-	-	28	28	71	79
5C/ 49	.5				<u> </u>					1				1		1		33	33	56	\$2
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Element (X)		Σχ,			χX		X	· 2		No. Ol					Mean	No. of	Hours with	h Temperat	lure		
Kel. Hum.			3937		457			23.6			19	≤ 0 !	F	≤ 32 F	≥ 67		≥ 73 F	≥ 80 F	z 93	F	Total
Dry Bulb			: 138		373		60.4	6.3	64	6	19				15	. 8	3.3	. 3	3		90
Wet out5			7108		343	92	55.6	3.1	31		19				1	.5					90
Dew Point		167	1366		319	44	51.6	2 · 0	M21.		19										90

J DATA PROCESSING BRANCH PSYCHROMETRIC SUMMARY USAF ETAC 2 AIR WEATHER SERVICE/MAC 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 1200-1400 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 13 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 | 28 | 29 | 30 | 2 31 88/ 87 86/ 85 84/ 83 •5 80/ 79 78/ 77 10 10 26 76/ 75 18 74/ 73 30 72/ 71 28 28 68/ 67 C 2.0 2.5 1.5 2.1 1.7 1.7 2.3 70 64/ 63 50 50 0 60/ 59 2.8 4.3 2.6 83 83 1.3 2.1 .8 1.3 1.8 56 34 88 31 31 56/ 55 1.3 52/ 51 10 10 48/ 47 . 2 40/ 39 38/ 37 TUTAL 1.3 6.313.417.019.818.712.7 6.4 2.3 1.3 605 605 37744 2485584 62.414.719 605 ≥67 F ≥ 73 F ≥ 80 F

D.B. W.B. Dry Bulb Wet Bulb Den Point 15 21 58 78 47 61 38 44 23 605 39396 65.1 7.429 36.4 605 34673 57.3 5.393 30999 51.2 6.352 2004705 605

DATA PROCESSING BRANCH USAF ETAC AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 SEP
STATION STATION NAME YEARS

PAGE 1 1500 1700

PAGE 1 1500-1700

Temp.							BULB											TOTAL		TOTAL	
(F)	0	1 - 2	3 - 4	5 - 6	7 . 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	2 22		25 - 26	27 - 28 29	- 30	× 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Po
90/ 89										İ			. 2					1	1	-	
88/ 87]				l	<u> </u>				.2	• 2] }		ì		2	2	_	Ì
86/ 85						<u> </u>				1.0	.5	•2				Ī		121	12		
84/ 83		1	i i			j			.2	.3	.2) !]	1		4	4	'	}
02/ 81		۱					.3		.2									3	3		1
80/ 79		i				.2	.2	.5										6	6		
78/ 77					.2	1.3	2.1	, 5	.2	<u> </u>				 				27	27		
76/ 75		ì			.3	1.1	1.3	.6		.2				1		j		25	25		
74/ 73				•5	,6	•8		.8	 -	• 2				 		i		28	28		 -
72/ 71		1	.2	.2					.5	.3	1			1 1		1		39	39		1
70/ 69		-	• 3			1.4		1.4	. 8					 	—— -			59	59	4	
68/ 67		. 2	.3					1.4	1		1			[j	}		76	76	33	1
66/ 65	.3		1.1	.6	1.4	1.4	2.1	1.0		 				 				51	51	43	 -
64/ 63	4 -	. 8	2.3	1.4	1.3		1.0	.2])				1 1		j		67	67	48	1
62/ 61	. 2	. 6	1.6	2.1	2.4	1.3				 				├ ──				55	33	81	2
60/ 59	. 2	. 8	1.4	4.3			1		.2	1	1			1		İ		62	62	59	9
58/ 57	• 2		1.0			• 3		.2		 								38	38	52	
56/ 55	• ~	.5	1.4		.6			•	1	i		· '	i		1	1		23	23	94	1 2
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52/ 51	i	3	1.4		1	1	}	{	}	ļ	ļ				}	ļ		13	13	48	5
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24/ 23										١. ۵	١ ۾		_			- 1			!		١,,
UTAL	Lel	0.4	12.2	17.6	11.0	17.0	14.0	1.0	201	100	.8	٠.6	.2					 	622		62
1			}	1	1	1	1		1	1	}			1		1		-622		622	
Element (X)		Zx'	'	 	ZX		X	- F	' 	No. Ol	s. I	L	ــــ	لـــــا	Mego No	of Ho	urs wit	h Temperati	ure		
Rel. Hum.			1050		382	12	61.4				22	= 0	F	± 32 F	≥ 67 F		73 F	≥ 80 F	4 93 1	FT	Total
Dry Bulb			2704		407	94	65.6	7.7	42		22		-		40.		5.6	3.3			
Wet Bulb			2980		357		37.5				22				5.			 "-	1		ج
			518		3.8		51.2				22					<u> </u>		1			ģ

DATA PROCESSING BRANCH . USAF ETAC AIR WEATHER FIRVICE/MAC PSYCHROMETRIC SUMMARY 2 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 SEP 1800-2000 PAGE 1 WET BULB TEMPERATURE DEPRESSION (F) TOTAL 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 26 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | 2 31 D.B. W.B. Dry Bulb Wet Bulb Dew Point 84/ 83 82/ 81 80/ •3 78/ 77 76/ 75 . 2 . 8 72/ 71 .2 1.3 • 5 17 17 1.0 1.6 70/ 69 24 .3 C 1.2 1.5 68/ 67 • 2 ₹8 38 1.8 1.0 47 47 66/ 65 1.3 3.3 2.8 1.3 3.3 1.8 1.6 .8 67 67 12 64/ 63 1.5 C 60 50 50 62/ 61 91 60/ 59 .2 91 67 67 66 58/ 66 2.3 2.8 1.5 2.3 G 55 3.1 53 53 63 56/ 77 57 53 36 36 54/ 52/ 51 47 73 30 3.1 3.6 47 77 30/ 49 2.1 1.3 28 28 66 48/ 47 13 13 51 32 . 8 . 2 1.2 63 1.0 6 16 43 44/ 43 42/ 41 43 40/ 38/ 37 36. 35 34/ 33 32/ 31 30/ 29 TOTAL 1.322.129.720.413.7 7.7 3.0 1.3 • 2 507 607 6C7 0 Element (X) No. Ubs. Mean No. of Hours with Temperature O O O 73.813.743 44783 3418445 267 F 2 73 F 280 F 607 10 F Rel. Hum. 90 Dry Bulb 2212121 36411 60.0 6.858 607 33452 55.1 5.623 31045 51.1 6.391 Wet Bulb 1862710

DATA PROCESSING BRANCH PSYCHROMETRIC SUMMARY 2 AIR WEATHER SERVICE/MAC RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 WET BULB TEMPERATURE DEPRESSION (F) TOTAL 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 | . | 19 - 26 | 21 - 22 | 23 - 24 | 25 - 26 | 27 | 28 | 29 - 30 | = 31 72/ 71 15 C 68/ 67 66/ 65 C 72 69 63 43 67 58 C 38 53 80 56 53 62 62 58 73 52/ 51 81 .3 3.8 1.2 .5 2.2 56 35 62 .2 2.0 22 42 13 42/ 41 40/ 39 38/ 37 3 36/ 35 7.347.329.916.0 4.5 603 603 603 Element (X) 50676 84.010.629 4326808 603 55.7 6.227 53.1 5.611 33613 31993 1897031 603 603 30654 50.8 5.910

DATA PROCESSING BRANCH PSYCHROMETRIC SUMMARY USAF ETAC 2 AIR WEATHER SERVICE/MAC 35032 RHEIN-HAIN APT GERMANY/FRANKFURT 67-76 0000-0200 WET BULB TEMPERATURE DEPRESSION (F) 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 15 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 - 31 D.B. W.B. Dry Builb Wer Builb Dew Point 64/ 63 62/ 61 13 58/ 10 10 56/ 31 39 52/ 51 35 0 57 58 58 57 65 59 91 48 48 68 40/ 39 0 43 49 38/ 37 50 36/ 35 34/ 33 20 20 17 17 24 1.3 17 27 32/ 31 1.5 30/ 29 28/ 27 26/ 25 6 23 22/ 21 604 31.857.5 9.6 1.0 603 603 Element (X) \$5182 91.5 7.643 27191 45.0 7.072 5085006 ≥ 67 F ≥ 73 F ≥ 80 F 603 Rel. Hum. 1 32 F 27191 26417 1254249 604 43.8 6.657 93 Wet Bulb 603 25693 42.6 6.807

DATA PROCESSING BRANCH A USAF ETAC AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76
STATION STATION NAME
PAGE 1 0330-0500

Temp.										DEPRE								TOTAL		TOTAL	
(F)	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 2	4 25 - 26	27 - 28	29 - 30	≥ 31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point
68/ 67 64/ 63			• 2			• 2												1	1		
62/ 61			.3							1								2	2		
60/ 59		1.3		•2			<u> </u>	<u> </u>		<u> </u>			ļ	ļi				10	10	1	!
58/ 57 56/ 55	1.9		•3	• 2				ļ		}							Ì	8 2 7	8 27	13 18	7 20
54/ 53	1.0							 	<u> </u>	 			 	1				20	20	27	19
52/ 51	1.9		6							i	<u> </u>		}					40	40	33	21
50/ 49		5.4	2.1						[66	66	46	58
48/ 47	1.9		1.3				<u> </u>	<u> </u>	<u> </u>	ļ			<u> </u>	ļ				52	52	53	35
46/ 45	4.6	7.8 5.1	•6										1					82 59	82 59	71 81	68 79
42/ 41	4.8				i			 		 			 	†			 	66	66	58	77
40/ 39	5,3	1.8	. 5					ļ						1			! !	47	47	69	71
38/ 37	5.8			ļ				1		1	1			-				59	59	52	55
36/ 35	1.4				 		 	 	 -	 				- 			 -	19	19	30 25	23
34/ 33 32/ 31	1.0 2.2				İ								ļ					32	32	27	38
30/ 29	.3					<u> </u>		1	 				T-	1				6	6	13	22
28/ 27	5				<u> </u>			<u> </u>	<u> </u>						'			4	4	5	5
26/ 25 24/ 23	• 3														i			2	2	3	5
TOTAL	40.3	52.0	7.2	•3		•2													625		625
				<u> </u>	 	 	 -	 	├	├							 	625		625	ļ
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Element (X)		Z _{X²}	1		žχ	<u> </u>	<u> </u>	•,	!	No. O	1	<u> </u>	<u>L</u>	1		/ **		h Tempera	<u></u>		<u> </u>
Rel. Hym.			5737		581	72		7.0			25	= 0	F	≤ 32 F	2 67		73 F	≥ 80 F	# 93 I	F	Total
Dry Bulb			4240		273	34	44.1	7.0	76		25	<u>_</u>	• +	6.5		1	,,,,		+	` -	93
Wes Bulb			0844		269	48	43.1	6.1	. 9		25			7.1							93
Dew Point			0958		263	48	42.2	6.9	58		25			11.0		\Box					93

DATA PROCESSING BRANCH 4 PSYCHROMETRIC SUMMARY USAF ETAC 2 AIR WEATHER SERVICE/MAC RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 PAGE 1 0600-0800 WET BULB TEMPERATURE DEPRESSION (F) TOTAL D.B. W.B. Dry Bu'b Wet Bulb Dew Poir 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 | 28 | 29 - 30 62/ 61 . 2 60/ 59 3 8 6 58/ 57 . 6 13 31 54/ 53 52/ 51 19 1.3 2.4 50/ 49 70 58 3.5 5.5 2.1 5.1 70 2.1 49 55 47 49 8.7 6.7 71 (46/ 45 3.3 86 86 62 93 44/ 43 81 42/ 41 4.0 8.9 88 88 66 99 40/ 39 57 25 62 46 37 38/ 37 2.1 46 46 į 48 32 25 35 36/ 35 34/ 33 32/ 31 1.4 1.6 1.1 1.7 20 20 28 18 29 18 10 30/ 29 28/ 27 13 26/ 25 . 2 24/ TOTAL 36.653.1 9.7 631 631 s with Temperature Element (X) No. Obs. Mean No. of h 167 F . 92.4 7.060 5420890 58286 63) ≤ 32 F F - 80 F - 93 F Rel. Hum. 44.4 6.707 93 Dry Bulb 1273565 .28031 631 4.1 93 631 26705 42,3 6.741

DATA PROCESSING BRANCH PSYCHROMETRIC SUMMARY USAF ETAC 2 AIR WEATHER SERVICE/MAC 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 0900-1100 WET BULB TEMPERATURE DEPRESSION (F) 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 | 28 | 29 - 30 | 23 | D B. W B. Dry Bulb Wet Bulb Dew Poin . 5 68/ 67 . 2 66/ 65 64/ 63 31 2 60/ 59 1.1 1.7 58/ 57 1.2 33 56/ 55 2.0 35 1.1 • 2 20 65 47 36 72 52/ 51 4.0 3.4 65 106 64 50/ 49 6.0 106 48/ 47 6.0 5.3 3.9 83 55 71 52 71 97 89 73 52 5.3 25 16 25 16 40/ 39 2.0 1.2 33 37 37 11 17 36/ 35 . 5 36 15 32/ 31 30/ 29 28/ 27 26/ 25 645 12.441.125,913.2 5.7 1.6 Mean No. of Hours with Temperature Element (X) 81.813.090 52771 Rel. Hum. 4427841 ⊴ 32 F 645 267 F 273 F 280 F 49.8 6.517 Dry Bulb 1624090 32092 645 30288 47.0 5.854 645 28451

DATA PROCESSING BRANCH USAF ETAC AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

STATION NAME

PAGE 1 1200-1400
HOURS II STATION

Temp.										DEPRE								TOTAL	!	TOTAL	
(F)	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 26	27 28	29 - 30	≥ 31	D.B. W B.	Dry Bulb	Wer Bulb	Dew Point
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72/ 71					,3				1	!	ļ		ĺ	1	1			2	2	-	
70/ 69		i	1	.2	1.1	.3	•2	•2	.2	i			-					13	13		·
68/ 67			ļ	.2	.3	1.9				l	l	[l	'	- !		1	19	19		ļ
66/ 65				. 8	1.6	• 3	.5	•2		·——	-			i .			•	21	21		
64/ 63		1	1.4	1.1	1.6	. 5		• 2				ì	}					31	31	6	1
62/ 61		.3	•6	2.1	1.4		•2			 -							 	29		9	
60/ 59		1.1	2.7	1		1.9	. 2	. 2]	1	Ì	1	1		1		ı	62	62	25	6
58/ 57		.6	1.1	3.2	1.4	• 8			i				i				1	50	50	41	17
56/ 55	. 5	1.1	1.0	2.1	2.2	1.4	.2			ļ				l .				53	53	50	25
54/ 53	• 5	1.1	2.4	2.1	1.0	. 8						\vdash	<u> </u>	ii			1	49	49	48	28
52/ 51	. 2	1.3	4.4	1.9	1.1	• 5			!	ŀ				į į	Ì		1	59	59	53	39
50/ 49	.6	2.4	4.6	1.1	1.3	1.1	•2								i			71	71	73	57
48/ 47	5	1.4	4.3	1.0	1.3		. 2			_								54	54	79	46
46/ 45	.5	4+1	2.2	.8	.5			i		Ī		1	1	1				51	51	74	66
44/ 43	5	3.3	.6	1.0	. 2				<u></u>	L		<u> </u>			i			35	35	74	56
42/ 41	• 6	1.4	1.0		1			1										19	19	52	106
40/ 39	1.1	. 2		·						İ	<u>L</u> _	i 						8	8	34	68
38/ 37	• 3	• 2							i									3	3	10	30
36/ 35		<u> </u>	l				İ					<u> </u>	<u> </u>		1		<u></u>	<u> </u>		2	23
34/ 33								i		i -		i -	[Į			20
32/ 31		<u> </u>	<u> </u>						l	<u> </u>							L		i I		19
30/ 29					l			i		[1	!			i				į l		12
28/ 27		<u></u>	Ĺ	<u> </u>				<u></u>		<u>i</u>	Ĺ	<u></u>					<u></u>	<u> </u>			70
22/ 21		1	1				1	!	ļ	Ì		1	İ		i		1		1 ;		1
18/ 17		<u> </u>	<u> </u>						<u></u>	<u></u>	L			<u> i</u>			<u></u>		i		1
TOTAL	5.2	18.6	26.3	19.0	17.3	9.4	2.7	1.3	•2	ĺ	ŀ	1							630	_	630
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Element (X)		ZXI			ZX		<u> </u>	7,		No. 01								h Tempera			
Rel. Hum.			2434		446	78	70.9	15.6	46		30	10	<u> </u>	1 32 F	≥ 67	_	73 F	→ 80 F	≥ 93 f	 -	Total
Dry Bulb			3222		338		53.7				30		_		5	2	1	 	_		93
Wet Bulb			2725		307		48.8				30					_ _		 	_		93
Dew Point		_134	4344	<u> </u>	276	• 0; :	43.9	7.0	48	6	30			6.3							93

C 1084 0.26 5 (OLA) 1811501

USAFETAC FOLL 0.26

PSYCHROMETRIC SUMMARY 2 AIR WEATHER SERVICE/MAC 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 1500-1700 PAGE 1 WET BULB TEMPERATURE DEPRESSION (F) (F) 1-2 3-4 5-6 7-8 9-10 11-12 13-14 15-15 17-18 19-20 21-22 23-24 25-26 27-28 29-30, + 31 D.B. W B., Dry Builb, Wet Builb, Dew Point 76/ 75 74/ 73 1 72/ 71 70/ 69 . 8 . 5 68/ 67 .8 1.4 25 1.3 .6 66/ 65 23 64/ 63 1.3 1.6 1.6 .2 62/ 61 1.6 1.4 1.7 1.1 1.1 2.3 2.0 60/ 59 37 58/ 57 49 49 41 16 50 45 56/ 55 .9 1.6 1.7 1.7 50 26 1.6 2.3 1.9 1.1 2.2 4.2 1.6 .8 3.1 5.3 1.1 1.1 1.9 4.2 1.7 1.3 54/ 53 48 46 27 52/ 51 60 57 60 62 49 81 C 59 1.9 63 48/ 47 77 1.1 48 74 46/ 45 48 .5 44/ 43 3.0 1.4 39 39 71 1.3 21 46 88 42/ 41 2.7 46 15 12 74 40/ 39 1.1 23 38/ 37 36/ 35 32 34/ 33 22 20 32/ 31 30/ 29 Q 28/ 27 20/ 19 Total 11 3.322.826.418.315.3 9.4 3.1 1.3 640 640 640 640 Element (X) No. Ohs.
 Mean No. of Jours with Temperature

 ≥ 67 F
 ≥ 73 F
 ≥ 80 F
 ≥ 93 F
 45784 644 Rel. Hom. 3426320 Dry Bulb 1875824 34286 53,6 7,818 640 93 31195 28141 Wet Bulb 93 1545623 48.7 6.269 640 44.0 7.027

DATA PROCESSING BRANCH USAF ETAC

DATA PROCESSING BRANCHUSAF ETAC AIR WEATHER SERVICE/MAC

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

PSYCHROMETRIC SUMMARY

1800-2000 WET BULB TEMPERATURE DEPRESSION (F) 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 25 | 2 - 28 | 29 - 30 | 2 31 | D B. W.B., Dry Builb | Wer Builb | Dew Poin 68/ 67 66/ 65 64/ 63 10 10 . 6 62/ 61 60/ 59 58/ 57 56/ 55 16 39 39 10 14 25 44 38 38 2.0 2.2 38 27 52/ 51 50/ 49 32 26 81 81 53 50 .3 4.1 3.1 .4 7.2 2.7 47 48/ 47 54 80 87 46/ 45 80 73 44/ 43 6.1 1.6 58 58 8.3 77 77 70 98 86 40/ 39 2.0 1.9 36 36 66 38/ 37 29 38 27 15 36/ 35 34/ 33 32/ 31 13 īī 20 30/ 29 28/ 27 7 6 26/ 25 24/ 23 TOTAL 635 635 6.846.632.111.5 2.8 635 635 52361 797 No. Obs. 82.510.930 4393345 267 F 273 F 280 F 293 F 635 ± 32 F 30987 48.8 6.743 29340 46.2 6.232 27640 43.5 6.752 Dry Bulb 1540941 635 1380268 635

C 10. 4 0.26-5 (OLA) ATMIENTOUS

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SAFETAC PO

DATA PROCESSING BRANCH USAF ETAC AIR WEATHER SERVICE/MAG

PSYCHROMETRIC SUMMARY

35037 RHEIN-MAIN APT GERMANY/FRANKFURT 07-76

STATION NAME

PAGE 1 2100-2300

Temp.						WET	BULB 1	EMPER	ATURE	DEPRE	SSION (F)						TOTAL '		TOTAL	
(F) [0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	1" - 18	19 - 20	21 - 22 2	3 - 24 25	5 - 26	27 - 28 2	9 30	× 31	D B. W.B.	Dry Bulb	ret Bulb	Dew Point
64/ 63		e 2	• 3	• 2						1								4	4		
62/ 61		. 3	• 3										1			1		4:	4	1	
60/ 59		1.1	.6													1		14	14	5	3
58/ 57	• 2	1.7											1	1	j	- 1		20	20	13	7
56/ 55	.9	3.0	2.3	.5														43	43	23	21
54/ 53	. 9	1.9	1.7							1			-	!		- 1		33	33	38	23
52/ 51		4.1								 				$\neg \uparrow$		-		40	40	48	23
50/ 49	1.6		3.6										1			i		81	81	47	62
48/ 47!		6.4								1		-						60	60	57	62 49
46/ 45		8.1								1 1			!	1	į			74	74	82	_ 70_
44/ 43		7.8		•2			i			 					i -	T		70	70	77	72
42/ 41	2.3	7.0	1.9				1			1					ì			72	72	66	91
40/ 39	4.7									-					 i-			56	56	85	91 75
38/ 37	1.3	1.9]		1			} ;			}	į	i	1		24	24	41	43
36/ 35		2.0	•2				i											18	18	18	32
34/ 33	. 8		• 2						ĺ			!!	İ	!	!]		14	14	22	21
32/ 31	.6	. 8																9	9	10	31
30/ 29		. 3		<u> </u>			l i]_]]	1	1	1		2	2	3	8
28/ 27		• 2		i														1	1	2	3
26/ 25	2												1		1	- }		1	1	2	4
24/ 23	_									i I									i		4
TOTAL	19.1	58.3	19.7	3.0				ll	<u> </u>	L1]]		}			1 1	640	,	640
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Element (X)		Σχ'	4.5.4.5		ZX		X	· **		No. Ob		-						h Temperat			
Rel. Hum.			4818		565		88.4			64		± 0 F		2 F	≥ 67 F	-	73 F	2 80 F	≥ 93 F		Torol
Dry Bulb			4248		295		46.2			6/				1,9				ļ			93
Wet Bulb			8105		285		44.6				lo	<u></u>		2.5				<u> </u>	-	_	93
Dew Point		120	6179		274	<u> </u>	42.9	<u> </u>	<u>V/L</u>	- 0/	10 1			7,3				<u> </u>			93

FORM 0-26-5 (OLA) REVISED MEYOUS EDITIONS OF THIS FOI

SAFETAC FORM

DATA PROCESSING BRANCH PSYCHROMETRIC SUMMARY USAF ETAC 2 AIR WEATHER SERVICE/MAC 35032 RHEIN-MAIN APT GERNANY/FRANKFURT 67-76 NOV Ĺ 0000-0200 PAGE 1 WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL D B. W.B. Dry Buib Wer Buib Dew Poin 5-6 7-8 9-10 11-12 13-14 15-16 17-18 19-20 21-22 23-24 25-26 27-28 29-30 + 31 1 60/ 59 58/ 57 3 56/ 55 3 . 2 • 2 .2 6 52/ 51 6 • 2 50/ 49 18 18 48/ 47 1.4 1.0 58 58 46/ 45 1.9 6.0 3.4 9.2 50 50 30 44/ 43 96 96 56 79 40/ 39 67 2.2 9.2 74 74 61 99 38/ 37 65 4.3 50 50 52 36/ 35 2.6 5.6 48 48 73 4.6 3.4 47 47 32/ 31 3.4 23 30/ 29 20 20 35 28/ 27 3.1 . 5 21 26/ 24/ 23 1.0 20/ 19 18/ 17 16/ 15 587 587 TRTAL 33.453.012.3 587 587 C Element (X) No. Obs. Mean No. of Hours with Temperature Rel. Hum. 4799732 52818 90.0 8.974 587 1 32 F ≥67 F ≥ 73 F ≥ 80 F ≥ 93 F 38.6 0.472 37.4 6.018 35.8 6.173 22660 587 90 Dry Bulb 899290 16,7 21953 18,7 90 Wet Bulb 842235 587

90

21035

776115

Day Point

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DATA PROCESSING BRANCH USAF ETAC PSYCHROMETRIC SUMMARY 2 AIR WEATHER SERVICE/MAC O 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 O WET BULB TEMPERATURE DEPRESSION (F) (1 1 . 2 | 3 . 4 | 5 . 6 | 7 . 8 | 9 . 10 | 11 - 12 | 13 . 14 | 15 . 16 | 17 - 18 | 19 - 20 | 21 . 22 | 23 - 24 | 25 . 26 | 27 . 28 | 29 - 30 | 2 31 | D.B. W B. Dry Bulb Wer Bulb Dew Poin 58/ 57 54/ 53 18 O 30 53 11 35 57 60 85 84 69 59 46 77 59 2.5 88 30/ 29 28/ 27 24 20 20 10 19 24/ 23 22/ 21 39.549.510.2 630 630 630 630 Mean No. of Hours with Temperature 57556 91.4 8.460 5303258 630 ≤ 32 F Dry Bulb 943595 24031 -30,1 -6,545 20.3 630 23383 3751 6.149 22540 3578 6.296 630

DATA PROCESSING BRANCH PSYCHROMETRIC SUMMARY USAF ETAC 2 AIR WEATHER SERVICE/MAC RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 WET BULB TEMPERATURE DEPRESSION (F) 5-6 7-8 9-10 11-12 13-14 15-16 17-18 19-20 21-22 23-24 25-26 27-28 29-30 231 D.B. W.B. Dry Bulb Wet Bulb Dew Poin 60/ 59 58/ 57 54/ 53 12 22 50/ 49 22 48/ 47 46/ 45 42 42 66 76 77 93 58 56 63 59 47 38/ 37 62 81 78 33 31 20 51 37 30/ 29 28/ 27 27 14 26/ 25 24/ 23 22/ 21 20/ 19 16/ 15 14/ 13 628 628 33.157.6 628 628 No. Obs. Element (X) 57060 Mean No. of Hours with Temperature 90.9 8.207 ≤ 32 F 24130 - 38-4 6-446 628 628

C DATA PROCESSING BRANCH PSYCHROMETRIC SUMMARY USAF ETAC 2 AIR WEATHER SERVICE/MAC 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 WET BULB TEMPERATURE DEPRESSION (F) 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 2 - 28 29 - 30 2 31 0.8 W.B. Dry Gulb Wet Bulb Dew Port 60/ 59 58/ 57 56/ 55 52/ 51 18 C 3.6 48/ 47 1.3 3.0 48 2.8 67 82 89 65 82 9.5 44/ 43 89 88 39 6% 62 82 40/ 2.8 69 76 38/ 37 45 45 36/ 35 36 36 34/ 33 32/ 31 30/ 29 34 12 36 27 28/ 24/ 23 22/ 21 20/ 19 18/ 17 610 610 18.257.020.0 3.8 1.0 610 Element (X) No. Obs. Mean No. of Hours with Temperature 86.510.160 4623579 1 32 F 25109 41.2 6.177 24064 39.4 5.674 1056777 610 9.0 10.9 90 968908 .610 22750 37.3 5.981

DATA PROCESSING BRANCH PSYCHROMETRIC SUMMARY USAF ETAC AIR WEATHER SERVICE/MAC 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 TOTAL TOTAL
D.B. W.B. Dry Bulb Wet Bulb Dew Poin Temp. (F) WET BULB TEMPERATURE DEPRESSION (F) Û 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | 31 64/ 63 60/ 59 58/ 57 6 6 56/ 55 54/ 53 25 25 29 29 55 55 10 84 46/ 45 88 88 45 92 73 91 91 191 40/ 39 33 38/ 37 31 31 55 65 48 40 34 31. 31 84 34/ 33 45 34 30/ 29 28/ 27 26/ 25 22/ 21 20/ 19 603 10.839.631.315.4 603 ± 32 F 26325 4367 6.253 24684 4059 5.559 22639 3375 66167 Dry Bulb 3.7 1172801

DATA PROCESSING BRANCH PSYCHROMETRIC SUMMARY USAF ETAC 2 AIR WEATHER SERVICE/MAC 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 **₩ET BULB TI. PERATURE DEPRESSION (F)** TOTAL 1 - 2 | 3 - 4 | 5 - 6 | 7 - 2 | 9 | 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | 23 | D.B. W.B. Dry Bulb Wet Bulb Dew Point 64/ 63 60/ 59 6 6 58/ 56/ 55 15 30 C 52/ 51 1.0 55 64 18 90 72 90 47 72 76 109 . 2 75 38 80 90 40/ 39 3.0 2.6 54 54 59 41 45 42 1.0 28 28 36/ 35 35 30 7 30 71 32/ 31 28 30/ 29 28/ 27 19 22/ 21 20/ 19 **(4** 12.040.532.611.8 2.5 610 Mean No. of a ours with Temperature 49133 80.512.326 4049981 Rel. Hum. 610 1 32 F 26376 43.2 6.408 24789 40.6 5.665 22807 37.4 6.144 1165488 1026913 Dry Bulb 610 610

DATA PROCESSING BRANCH PSYCHROMETRIC SUMMARY USAF ETAC 2 AIR WEATHER SERVICE/MAC 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 C WET BULB TEMPERATURE DEPRESSION (F) € D B. W.B. Dry Bulb Wet Bulb Dew Poin (F) 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 - 31 64/ 63 60/ 59 58/ **57** 54/ 53 0 50/ 49 2.3 68 68 40 120 59 120 97 88 59 72 40 40 46 40 52 49 58 70 34/ 33 32/ 31 30/ 29 28/ 27 47 47 23 7 23 35 26/ 25 24/ 23 3 .22/ 21. 20/ 18/ 17 621 621 621 Element (X) No. Obs. Meon No. of Hours with Temperature Rel. Hum. 4635239 85.010.387 25373 40.9 6.304 24271 39.1 5.787 10.0 1061335 <u> 621</u> 90 Wet, Bulb. 969363 22840 36.8 6.132

DATA PRUCESSING BRANCH PSYCHROMETRIC SUMMARY USAF ETAC 2 AIR WEATHER SERVICE/MAC 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 2100-2300 WET BULB TEMPERATURE DEPRESSION (F) 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 22 - 24 25 26 27 - 28 29 - 30 = 31 D.B. W B. Dry Bulb Wet Bulb Dew Poin 60/ 59 58/ 57 56/ 55 •2 •5 .2 .5 52/ 51 C 20 29 29 59 29 32 47 48/ 2.1 1.5 59 38 66 79 7.1 1.1 109 109 78 85 76 65 65 39 1.6 6.5 83 54 74 39 39 41 36/ 58 75 74 3.9 47 40 22 15 9 15 24 13 27 28/ 26/ 24/ 23 22/ 21 20/ .19 28.053.516.0 Element (X) 34624 24370 39.8 6.436 4892886 617 1 32 F 14.3 Dry Bulb 1003932 Wet Bulb 931805 23697 38,4 5,932 22581 36.6 6.138

1 DATA PROCESSING BRANCH PSYCHROMETRIC SUMMARY USAF ETAC 2 AIR WEATHER SERVICE/MAC C 35032 RHEIN-MAIN APT GERHANY/FRANKFURT 67-76 C WET BULB TEMPERATURE DEPRESSION (F) C 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 20 21 - 27 23 - 24 25 - 26 27 - 25 29 - 30 = 31 D.B. W B., Dry Builb Wer Builb Dew Por 58/ 57 54/ 53 17 17 50/ 49 .2 2.1 10 10 25 27 46/ 45 2.6 27 55 55 34 43 38/ 63 63 31 71 53 62 62 85 5.3 64 64 56 56 29 27 25 46 46 30/ 38 38 28 29 26/ 23 23 28 28 38 18 10 22/ 10 15 14/ 2 10/ 6/ 624 0.26.5 624 624 No. Obs. Element (X) Meer, No. of Hours with Temperature 4948042 55320 88.7 \$.376 624 1 32 F 21182 33.9 8.687 20484 32.8 8.260 19278 36.9 8.758 Dry Bulb 37.0 624 Wet Bulb 714932 624

DATA PROCESSING BRANCH USAF ETAC AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76

Dew Point			0036			90 -	3170				5.5			50.8					士二	1	93
Wet Bulb			9190 0134		211		.33.9 .32.1			6	15"			38:5					+		93
Ral. Hum. Dry Bulb		516	<u>3262</u> 3760	-	219		87:1			် <u>ဗ</u> ်		10	F	: 32 F	≥ 67	F	73 F	> 80 F	2 93 F		Terel 93
lement (X)		ZX1			Σχ	<u>.</u>	X	: : • ₈		No. Ob							ours wit	h Temperat	ure.		
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										,	,										
			7777	,							,							645		645	
4/ 3	32.1	59.2	8.5	•2															646		64
8/ 7 6/ 5												<u> </u>						3	3	3	
2/ 11 0/ 9	.5 .6					·			<u> </u>			<u> </u>	<u> </u>					5 4	5	6	
4/ 13	_ ,9	• 5						<u> </u>	ļ 					<u> </u>				9	9	9	1
8/ 17 6/ 15	.9 .6						 			 			 	┼			<u> </u>	11	- <u>11</u>	14	1
0/ 19	.6	• 6										 -	 	1				8	8	6	2
4/ 23 2/ 21	2.0	3.1 ,2	• 2		ĺĺ													34	34	22 31	2
6/ 25	2.2	1.1	. 2	<u> </u>					} 			! !						22	22	25	2
0/ 29 8/ 27	2.5	2.9						<u> </u>	<u> </u>			<u> </u>	ļ	 			<u></u>	36 39	36	50 37	
9/ 33	3.7									 			 	 				67	67	55	ò
6/ 35 4/ 33	2.8	9.9	• 3		İ													63	84 63	94 91	5 8
8/ 37	•8	7.9	.6				1		! !	<u>ii</u>		<u> </u>	<u> </u>	İ			! !	51	61	47	2
2/ 41 0/ 39	1.0												ļ	 			<u></u>	43	43	34 35	3
4/ 43	1.2	3.3	• 3						 	1			 	 				31	31	36	1
8/ 47 6/ 45	•2	1.2 2.8	.9						İ					İ		'		15 25	15 25	14	1
0/ 49	•6	1.6	. 5							<u> </u>		<u> </u>		<u> </u>	!			17	17	10	1
4/ <u>53</u> 2/ 51		•6	•3						 			 	├─	┼─	<u> </u>			2	3	$-\frac{1}{2}$	
6/ 55			. 3						-									2	2	1	
(F)	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 29	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	× 31	D B. W.B.,	Dry Bulb	Wer Bulb	Dew Po

DATA PROCESSING BRAUCH USAF ETAC Û PSYCHROMETRIC SUMMARY 2 AIR WEATHER SERVICE/MAC 35032 RHEIN-HAIN APT GERMANY/FRANKFURT 67-76 () WET BULB TEMPERATURE DEPRESSION (F) 0 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 - 31 D.B. W B. Dry Bulb Wer Bulb Dew Poin • 3 56/ 55 54/ 53 52/ 51 10 13 48/ 47 10 C 44/ 43 3.1 26 54 36 50 54 50 29 40/ 39 .9 5.6 1.2 39 36/ 35 71 64 64 81 32/ 31 64 35 G. 28/ 27 32 24/ 23 22/ 21 33 33 27 35 12 10 10 20/ 19 16/ 15 13 11 12/ 11 10/ 8/ 3 2/ 31.857.9 9.5 641 TOTAL 641 Element (X) No. Obs. Mean No. of Hours with Temperature 5076546 777776 56790 88.6 5:412 ≤ 32 F 641 21586 33.7 3.914 38.0 :641 20466 32.6 8.457 19417 830.6 87871 93 Wer Bulb 725006 41,2

DATA PROCESSING BRANCH PSYCHROMETRIC SUMMARY USAF ETAC AIR WEATHER SERVICE/MAC 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 Ũ WET BULB TEMPERATURE DEPRESSION (F) O 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 - 21 D.B. W.B. Dry Bulb Wer Bulb Dew Poin 56/ 55 54/ 53 52/ 51 . 5 10 10 48/ 47 25 23 36 46/ 35 35 44/ 43 2.9 53 53 26 47 72 70 72 66 66 36/ 35 51 67 82 66 67 63 31 5.7 1.1 35 45 41 44 23 Ż8 23 18 19 21 23 13 20/ 19 11 11 16/ 15 14/ 13 8 10 11 12/ 3 647 645 645 Element (X) No. Obs. Mean No. of Hours with Temperature 86.3 3.865 55688 4858596 645 1 32 F 22835 3573 8,289 21868 33.9 7,839 20370 3176 87405 33.6 Dry Bulb 850319 647 780988 645 36,6

DATA PROCESSING BRANCH PSYCHROMETRIC SUMMARY USAF ETAC AIR WEATHER SERVICE/MAC RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 1200-1400 WET BULB TEMPERATURE DEPRESSION (F) TOTAL 1 . 2 | 3 . 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 | 28 | 29 - 30 | 23 | D.B. W.B. Dry Bulb, Wet Bulb Dew Point 56/ 55 54/ 53 52/ 51 10 10 15 .6 25 47 15 25 48/ 47 41 32 44/ 43 3.2 36 40/ 39 6.2 2.1 60 79 63 63 67 58 58 52 66 36 28 28 27 30 18 9 16 20/ 19 15 13 16/ 12/ 11 12.556.625.3 5.4 633 51948 82.110.839 23536 37.2 7.507 4337436 633 Rel. Hum. z 32 F 25.3 910722 32-0 815764 22276 35,2 7,099 633 20286 32:0 7:954

DATA PROCESSING BRANCH PSYCHROMETRIC SUMMARY USAF ETAC 2 AIR WEATHER SERVICE/MAC 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 1500-1700 WET BULB TEMPERATURE DEPRESSION (F) TOTAL 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 , 31 D.B. W.B., Dry Bulb Wer Bulb Dew Point 58/ 5 • 3 56/ 55 54/ 53 52/ 51 10 10 1.2 1.8 2.0 1.7 13 50/ 49 21 21 10 26 26 31 31 18 46/ 45 .5 3.1 1.1 40 48 59 42/ 41 59 42 28 52 70 74 56 56 53 59 61 77 38/ 37 7.2 1.7 61 89 63 63 65 34/ 33 6.5 1.8 60 61 105 60 37 40 30/ 29 4.0 . 8 37 28/ 27 3.8 46 46 14 12 14 26 45 .26/ 25 . 8 1.1 22/ 21 20/ 19 13 • 6 6 18/ 17 .3 16/ 15 14/ 13 **(%)** 650 TOTAL 12.862.522.5 2.2 0-26-5 (OL Element (X) Mean No. of Hours with Temperature 54187 83.4 7.848 23845 36.7 7.486 22668 34.9 7.122 20801 2.22.0 7.935 Rel. Hum. 4580225 650 ≤ 32 F 27.0 32.3 49.5 911117 650 650 93

DATA PROCESSING BRANGH PSYCHROMETRIC SUMMARY USAF ETAC AIR WEATHER SERVICE/MAC 35032 RHEIN-MAIN APT GERMANY/FRANKFURT 67-76 1800-2000 PAGE 1 WET BULB TEMPERATURE DEPRESSION (F) TOTAL 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | 231 | D.B. W.B. Dry Bulb | Wer Bulb | Dew Point C 58/ 57 . 2 . 3 52/ 51 . 6 48/ 47 17 12 10 46/ 45 31 77 31 13 44/ 43 3.5 28 47 77 40/ 39 46 52 62 49 38/ 37 52 60 87 66 48 36/ 35 66 73 6.2 54 36 32/ 31 1.9 6.3 81 30/ 29 28/ 27 26/ 25 47 36 53 48 28 56 25 20 24/ 23 22/ 21 1.6 2.2 20 13 15 . 8 20/ 16/ 15 6 2 12/ 2 8/ TOTAL 21.263.613.9 1.3 632 632 4741925 54453 84.2 8.925 Rel. Hum. 632 ± 32 F 22023 = 347 0 10 7006 21129 = 3314 77 7566 19626 = 3171 17 7204 33.3 Dry Bulb ·807871 <u> 2632</u> 93 742501 :632

RHEIN-MAIN APT GERMANY/FRANKFURT

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PSYCHROMETRIC SUMMARY

DEC

2100-2300 PAGE 1 Temp. (F) WET BULB TEMPERATURE DEPRESSION (F) TOTAL TOTAL 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | 2 31 D.B. W.B. Dry Bulb Wet Bulb Dew Point 56/ 55 54/ 53 3 3 • 5 52/ 51 6 6 50/ 49 2.8 1.3 13 13 3.2 7.9 25 25 69 69 33 .3 5.4 51 51 40/ 39 57 68 63 33 65 87 32/ 31 3.9 6.9 60 109 46 43 43 52 28/ 27 2.7 27 16 23 15 2.2 21 21 16 8 16 12 12 12 20/ 16/ 15 8 12/ 1 8/ 4/ 635 634 TOTAL 26.062.510.9 634 634 No. Obs. Element (X) Rel. Hum. 4933596 55678 87.8 8,332 132 F 267 F 273 F 280 F 293 F 634 93 Dry Bulb'. 805719 21967 34.6 8.499 635 35,3 21150 33.4 8.042 19854 31.3 8.469 Wet Bulb 746494 37,6 93 634

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DATA PRUCESSING BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

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MEANS AND STANDARD DEVIATIONS

DRY-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

35032	RH	IN-MAI	N APT	GEŖMĄN	Y/FRAN	KFURŢ	07-7	6						
STATION			STA	TION NAME						YEARS			•	
HRS. (L.S.T)		JAN.	FEB	MAR.	APR.	MAY	JUN	JUL	AUG.	SEP	OCT.	NOV.	DEC	ANNUAL
	MEAN	33,7	34.2								45.0	38.6	33.9	45.
00-02	S. D.	8,586	-	, -			:			(8.687	11.88
	TOTAL OBS	627	577	626	594	517	605	611	614	602	604	587	624	728
	MEAN	33.2								51.3	44.1	38.1	33.9	44.
03-05	\$. D.	9.037						5.605						11,51
	TOTAL OBS	647	580	641	610	629	601	615	629	612	625	630	646	746
	MEAN	33.1	33.2	36.4	43.4			62.4	61.0	53.1	44.4	38.4	33.7	45.
06-08	\$ D.	9,130			6.864	6.274	6,452	6.273	5.642	6.318	6.707	6.446		12 . 83
	TOTAL OBS	640	579	642	623			621	634	616	631	628	641	751
	MEAN	35,1	36.9	42.3	50.3	59.7	Ġ5•1	69.4	68.5	60.4	49.8	41.2	35.3	51.
09-11	S. D.	8.594	5.958	7.533	7.512	7.359	7.882	7.947	6.803	6.364	6.517	6.177	8.289	14.51
	TOTAL OBS	638	586	642	622	638			651	619	645	610	647	754
	MEAN	37.5						73.2			53.7	43.7	37.2	54.
12-14	\$. D	7.834										6.253		15,26
ļ	TOTAL OSS	634	582	647	616	630	604	599	628	605	630	603	633	741
	MEAN	37.8	7 7	47.6					74.4	65.6	53.6	43.2	36.7	55.
15-17	S. D.	7.662												15.674
	TOTAL OBS	626	585	634	624	627	608	620	631	622	640	610	650	747
	MEAN	35.5	37.4		51.1	60.2			69.2	60.0	48.8	40.9	34.8	51.
18-20	. ,	8,191										(14.82
ļ	TOTAL OBS	647	590	646	606	632	625	612	633	607	635	621	632	748
	MEAN	34.8			46.0		60.0	64.3		55.7	46.2	39.8	34.6	47.
21-23		8,598												12,78
<u> </u>	TOTAL OBS	.648	. 592	627	598	636	606	611	638	603	640	617	635	745
	MEAN	38.1	36.	41.1	A8.0	36.7	.62.2	66.6	65.8	58.0	48.5	40.5	35-0	69.

USAF ETAC : 1000 (0.89.5 (OL1)

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- DATA PROCESSING BRANCH USAF ETAC AIR NEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

WET-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

35032

RHEIN-MAIN APT GERMANY/FRANKFURT

67-76

STATION			STA	TION NAME						YEARS			-	
HRS. (L.S.T.)		JAN.	FEB	MAR.	APR.	MAY	NUL	JUL	AUG	SEP.	oct	NOV.	DEC	ANNUAL
	MEAN	32.6									43.8		32.8	43.
00-02	. 81	8.157	5.778											11:11
	TOTAL OBS	627	577	625	594	617	605	611	614	505	603	587	624	7286
	MEAN	32,3	32.5	34.2	38.8	46.6	51.9	55.9	55.6	50.2	43.1	37.1	32.8	42.
03-05	. U	8.631	6.024											10.98
	TOTAL OBS	647	579									1		746
	MEAN	32.1	32.1		40.4	49,3								43.0
-06-0#	S. D.	8.729												11,60
	TOTAL OBS	640	579	642	622	635	620	621	634	616	631	628	641	750
	MEAN	33.8	34.7	38.5	44.3	52.7	57.3	61.0	60.9	55.6	47.0	39.4	33.9	46.0
109-11	S D.	8.175	5,441	6.601					4.397					11.78
	TOTAL OBS	638			622				651	619		610	645	754
	WEAN	35.5	36.7	40.8	44.2	53.7	50.0	41	49.0	57.3		40.0	35.2	48.
12-14	S. D.	7.376			46.2				62.0 4.486					11.464
**-13	TOTAL OBS	634												741
	MEAN	35.9				54.2			62.3	57.5	48.7	40.6	34.9	48.
15-17		7.276								5.551	6.269	5.665	7.122	11,56
	TOTAL OBS	626	584	634	624	626	608	620	631	622	640	610	650	747
	MEAN	34.1	35.0	39.0	44.5	52.8	57.5	61.2	60.6	55.1	46.2	39.1	33.4	46.
1%-20	S, D.	7.867						4.931						11,75
	TOTAL OBS						625				635		632	748
	MEAN			- 37 6										
71.75		33.6			41.9				58.5					44.1
21-23	TOTAL OBS	648	1 7 . 3 7											11 94° 745
							500		-	- 503	348	011	- 037	
- ALL	MEAN	33.7		37,6	42.8	50.9	.55.8	59.8	59.3			38,8	33.6	45.
HOÙRS	S. D.		5,761	7.384	6.652	*6.199	5.865	5.429	5,134	6.262		6.025	7.904	11.64
	TOTAL OBS	5106	4668	- 5104	-:4891	5043	4892	4914	5058	4886	5049	4906	5104	5962

USAF ETAC TOM O-89-5 (OL J)

MEANS AND STANDARD DEVIATIONS

DEW-POINT TEMPERATURES DEG F FROM HOURLY DESERVATIONS

35032	RHEIN-MAIN	APT	GERMANY/FRANKFURT	67-76
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STATION			STA	ATION NAME				· · · · · · · · · · · · · · · · · · ·		YEARS			~	
HRS (L.S T.)		JAN	FEB.	MAR.	APR.	MAY	NUL	JUL	AUG	SEP	OCT	NOV	DEC :	ANNUAL
	MEAN	30.7	30.5				50.4	54.5	54.5	49.9	42.6	35.8		
00-02		8.586				w	5.784	5.653	5.390		,			11.42
	TOTAL OBS	627	577	625	594	517								728
	MEAN													
00 00	1	30.5						54.2	54.0	49.3	42.2	35.8	31.0	40.
03-05	TOTAL OBS	9.138						5.648	5.562	6.210	6.958	6.296	8,855	11.35
	TOTAL OBS	647	579	641	609	629	601	615	629	612		630		746
	MEAN	30.4	30.0	31.9	76 7	44.5							,	
06-08		9.150												41.
00-00	TOTAL OBS										6.741	6.277	8.871	11.58
	TOTAL OBS	640		642	622	635	620	621	634	616	631	628	641	750
	MEAN	31.7	31.4	22 0	27 6									
09-1-1		8.781												42.
07-11	TOTAL OBS	638	586						5.374			5.981	8.405	
	10171 083	090	200	642	622	638	623	625	651	619	645	610	645	754
	MEAN	32.5	31.5	33.1	37.1	45.4	FA #	E A .						
12-14		8.246		8.416							43.9	• -		41.
1	TOTAL OBS	634	582		616						1		7.954	11,10
				- 04 /	- 010	030	004	599	628	605	630	603	633	741
	MEAN	33.Q	31.8	33.3	36.6	45.5	50.8	54.4	54.2	51.2	44 0	37.4	-30 0	
15-17	S. D.	8.131	6,471	8.560		6.719		6.050			44.0		32.0	42.
	TOTAL OBS		584		624	626	608	620		622	7.027	1	7.935	11,11
		·						<u>020</u>	031	020	040	610	650	747
	MEAN	31.8	31.4	33.2	36.9	46.2	51.1	54.6	54.6	51.1	43.5	36.8	31.1	41.
18-20	\$. D.	8.588	6.163	8:377	7.223	6.639			6.059		6.752		8.204	11.38
	TOTAL OBS	646	589	646	606	632	625	512	633	607	635	621	632	748
ام ا	MEAN S. D.	31.4	31.0			46.7		55.2	55.0	50.8	42.8	36.6	31.3	41.
21-23		8.667	'w T = + '	8.319	6.830	6.310	5.653	5.634	5.456	5.910	6.707	6.138	8.469	11.42
	TOTAL OBS	648	592	627	598	636	606	611	638	603	640	617	634	743
	MEAN	33.5		20.19										
ÄLL	S. D.	3159	31.0	32.7	36,1	45.9	50.8	54.7	54.7	50.6	43.2	36.6	31.3	41.
HOURS	TOTAL OBS	9 (3)	6.340	132	7.007	01212	5.937	3.510	5.666	6.197	6.865	6.198	8.447	11,36
<u> </u>	IOIAL USS	3106	4568	5104	4591	5043	4897	4914	505R	4886	5049	4906	5104	5962

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RELATIVE HUMIDITY

35032

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RHEIN-MAIN APT GERMANY/FRANKFURT

7-76

ALL

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	HOURS			PERCENTAG	E FREQUENCY	OF RELATIVE	HUMIDITY GI	NAHT SETABL			MEAN RELATIVE	TOTAL NO OF
MONTH	(LST)	10%	20%	30%	40%	50%	50%	70%	80%	90%	HUMIDITY	OBS
JAN	ALL	100.0	100.0	100.0	99.9	99.9	98.7	93.7	78.6	44.2	87.1	5100
FEB		100.0	100.0	99.9	99.5	97.9	92.1	78.8	59.8	29.9	81.4	466
MAR		100.0	99.9	99.4	96.7	89,9	78.1	60.8	40.1	18.0	73.9	510
APR		100.0	99.9	97.8	90.0	78.9	65.1	49.2	8.06	13.5	68.0	489
MAY		100.0	100.0	98.7	92.2	80.9	66.6	53.5	34.9	17.6	69.9	504
JUN		100.0	100.0	97.5	92.0	80.3	66.8	52,4	33.0	16.6	69.4	489
JUL		100.0	99.4	97.9	92.0	78.5	64.3	50.1	32.8	16.0	68.7	491
AUG		100.0	100.0	98.4	91,7	80.9	66.9	53.0	35.8	19.7	70.3	505
SEP		100.0	100.0	99.9	98.1	92.8	82.5	70.6	51.4	31.6	78.5	488
OCT		100.0	100.0	100.0	99.4	97.2	91.8	83.8	65.9	42.4	84.0	504
NOV		100.0	100.0	100.0	99.9	99.6	97.6	90.3	73.9	45.9	86.7	490
DEC		100.0	100.0	100.0	100.0	99.9	98.7	93.3	78.3	41.5	86.5	510
101	ALS	100.0	99.9	99.1	96.0	89.7	80.8	69.1	51.3	28.1	77.0	5962

USAFETAC

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RÉLATIVE HUMIDITY

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RHEIN-HAIN APT GERMANY/FRANKFURT

-76

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CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	HOURS	l		PERCENTAG	E FREQUENCY	OF RELATIVE	HUMIDITY GR	EATER THAN			MEAN	TOTAL
MONTH	(LST)	10%	20%	30%	40%	50%	60%	70%	80%	90%	RELATIVE	NO OF OBS
JAN	00-02	100.0	100.0	100.0	100.0	100.0	99.8	97.4	86.0	52.2	88.9	62.
	03-05	100.0	100.0	100.0	100.0	100.0	99.5	98.1	88.3	55.3	89.8	64
	06-08	100.0	100.0	100.0	100.0	100.0	99.8	98.6	89,2	56.9	90.1	641
	09-11	100.0	100.0	100.0	100.0	100.0	99.7	93,6	78,5	44.8	87.5	638
<u></u>	12-14	100.0	100.0	100.0	99,7	99,5	95.4	83.9	61.5	29.0	82.4	634
	15÷17	100.0	100.0	100.0	100.0	99.8	96.8	85.6	64.4	28.9	83.1	62
	18-20	100.0	100.0	100.0	100.0	100.0	99.1	94.9	77.2	39.8	86.5	641
	21-23	100.0	100.0	100.0	99.8	99.8	99.8	97.5	83.8	46.3	88.2	64
				ļ	<u> </u>	,						

10	TALS	100.0	100.0	100.0	99.9	99.9	98.7	93.7	78.6	44.2	87.1	510

USAFETAC PORM 0-87-5 (OL,A)

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RELATIVE HUMIDITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT

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CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	HOURS			PERCENTAG	E FREQUENCY	OF RELATIVE	HUMIDITY GR	EATER THAN			MEAN	TOTAL
HTHOM	(L S T)	10%	20%	30%	40%	50%	60%	70%	80%	90%	RELATIVE	NO OF OBS
FEB	00-02	100.0	100.0	100.0	100.0	99.5	98.6	93.6	77.6	42.3	86.7	577
	03-05	100.0	100.0	100.0	100.0	100.0	99.5	95,5	82,4	49.9	88.2	579
	06-08	100.0	100.0	100.0	100.0	100.0	99.1	95.9	32.9	50.8	88.3	579
	09-11	100.0	100.0	100.0	100.0	99.1	95.1	79.7	56.1	27.0	81.3	586
	12-14	100.0	100.0	99.5	98.6	92.8	77.8	50.2	30.1	12.5	72.0	582
	15-17	100.0	100.0	99.7	97.9	93.2	77.4	51.2	28.4	11.8	71.8	584
	18-20	100.0	100.0	100.0	99.8	96.6	93.2	76.2	51.4	17.8	79.2	589
	21-23	100.0	100.0	100.0	100.0	99.8	96.3	87.7	69.4	27.0	83.5	592
										<u> </u>		
TO	TALS	100.0	100.0	99.9	99.5	97.9	92.1	78.8	59.8	29.9	81.4	4668

USAFETAC POM 0-87-5 (OL A)

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RELATIVE HUMIDITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT
STATION NAME

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CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS			PERCENTAG	E FREQUENCY	OF RELATIVE	HUMIDITY G	EATER THAN			MEAN	TOTAL
MONTH	(LS T.)	10%	20%	30%	40%	50%	60%	70%	80%	90%	RELATIVE	NO OF OBS
MAR	00-02	100.0	100.0	100.0	100.0	99.5	97.1	84.5	59.7	28.0	82.4	62
	03-05	100.0	100.0	100.0	100.0	99.5	98.6	93.0	73.2	38,5	85.7	64
 	06-08	100.0	100.0	100.0	100.0	99.7	98.9	89.4	85.4	31.5	84.0	64
	09-11	100.0	100.0	99.8	98.3	92.4	76.9	51.7	27.6	9.8	71.3	547
	12-14	100.0	99.8	98,3	90.9	73,7	48.7	26.7	13.8	5.1	61.2	64
	15-17	100.0	99.5	96.8	87.4	68,3	45.4	24.8	12.9	4.4	59.7	634
	18-20	100.0	100.0	100.0	97.1	87.6	68.1	46.7	24.3	8.7	68.9	640
	21-23	100.0	100.0	100.0	99.7	98.4	91.1	69.5	43.9	17.7	77.7	62
			<u> </u>									
10	TALS	100.0	99.9	99.4	96.7	89.9	78.1	60.8	40.1	18.0	73.9	510

USAPETAC FORM 0:97-5 (OL A)

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RELATIVE HUMIDITY

35032 RHEIN-MAIN APT GERHANY/FRANKEURT

APP

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	HOURS			PERCENTAG	E FREQUENCY	OF RELATIVE	HUMIDITY GR	EATER THAN			MEAN	TOTAL
HTMOM	(LS.T)	10%	20%	30%	40%	50%	60%	70⁺•	80%	<u> </u>	RELATIVE	NO OF OBS
APR	00-02	100.0	100.0	100.0	100,0	08.7	91.9	77.4	51.7	22.1	79.5	594
···	03-05	100.0	100.0	100.0	100.0	99.8	96.1	86.4	66,8	31.4	83.6	609
	06-08	100.0	100.0	100.0	99.7	97.3	89.1	71.1	45.8	20.3	77.9	627
···	09~11	100.0	100.0	99,4	93,6	78.1	56.3	31.4	13.8	6.1	63.3	622
	12-14	100.0	99.7	94,3	75.2	53.6	32.1	19.8	8,9	3,4	54.3	610
	15-17	100.0	99.2	91.3	68,4	45,4	30.3	20.5	10,3	3.8	52.4	624
·	18-20	100.0	100.0	97.7	83.8	66,3	48.5	31.4	18.3	6.9	61.0	600
	21-23	100.0	100.0	100.0	99.5	91.8	75.6	55.7	30.6	13.7	72.2	598
				 							<u> </u>	
												
TO	TALS	100.0	99.9	97.8	90.0	78.9	65.1	49.2	30.8	13.5	68.0	÷89.

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RELATIVE HUMIDITY

35032 RHEIN-HAIN APT GERMANY/FRANKFURT

MAY

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	HOURS	ļ		PERCENTAG	E FREQUENCY	OF RELATIVE	HUMIDITY G	EATER THAN			MEAN RELATIVE	TOTAL NO OF
MONTH	(L.S.T.)	10%	20%	30%	40%	50%	60%	70%	80%	90%	HUMIDITY	OBS
MAY	00-02	100.0	100.7	99,8	99.8	99.7	95.5	88,5	68.2	34.7	84.3	617
	03-05	100.0	100.0	100.0	100.0	100.0	98.9	93.5	76.2	47.5	87.3	629
	06-08	100.0	100.0	100.0	99.8	98.6	89.4	73.7	44.9	23.5	78.5	635
	09-11	100.0	100.0	100.0	95.1	79.3	52.5	32.3	14,3	4.4	63.1	638
	12-14	100.0	100.0	96.0	78.9	53.3	30.0	17.5	8.5	3.2	54.3	630
	15-17	100.0	100.0	94.7	75.1	47.3	32.1	20.1	9,7	3,5	53.5	_626
	18-20	100.0	100.0	99,1	89.1	72.0	48.7	33.4	16.9	6.8	62.1	632
	21-23	100.0	100.0	100.0	99.8	96.9	85.8	68.7	40.7	17.1	76.4	636
10	TALS	100.0	100,0	98,7	92.2	80,9	66.6	53,5	34.9	17.6	69.9	504

USAFETAC POM (0-87-5 (OL A)

RELATIVE HUMIDITY

35032

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RHEIN-MAIN APT GERMANY/FRANKFURT

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HONIH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HTHOM	HOURS			PERCENTAG	E FREQUENCY	OF RELATIVE	HUMIDITY GR	EATER THAN			MEAN	TOTAL
monin	(LST)	10%	20%	30%	40%	50%	60%	70%	80.	90%	RELATIVE	NO OF OBS.
JUN	00-02	100.0	100.0	100.0	100.0	99.7	95.7	84.1	50.2	33.4	83.1	60
	03-05	100.0	100.0	100.0	100.0	99.5	97.7	91.7	70.7	44.4	86.3	60
	06-08	100.0	100.0	99.8	98.7	96.1	87.4	72.1	40,6	15.6	70.5	62
	09-11	100.0	100.0	97.8	92.9	77.5	54.1	32.3	14.6	4.7	62.8	62 .
	12-14	100.0	99.8	93.7	80.5	54.8	32.8	19.2	9;1	2.8	54.7	60
	15-17	100.0	100.0	92.1	77.0	52.1	35,5	23,4	12.7	4.3	55.0	50
	18-20	100.0	100.0	96.5	88.0	68,6	49.3	32.5	19.4	7.	61.9	62
	21-23	100.e	100.0	99.8	98.5	93.9	81.7	63,5	36,6	20.1	75.1	60
					{							
101	/ÀLS	100.0	100.0	97.5	. 92.0°	80,3	66.8	52.4	33.0	16.6	69.4	489

USAFETAC MAN 0-87-5 (OL A)

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RELATIVE HUMIDITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT

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JUL

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	HOURS			PERCENTAGE	E FREQUENCY	OF RELATIVE	HUMIDITY GR	EATER THAN			MEAN	TOTAL
MONTH	(LST)	10%	20%	30%	40%	50%	60%	70%	80%	90%	RELATIVE	NO OF OBS
JUL	00-02	100.0	100.0	100.0	99.7	97.5	95.3	87.0	62.4	30.1	12.9	51
	03-05	100.0	100.0	100.0	99.7	98.9	96.6	94.3	77.2	47.3	87.0	61
	06-08	100.0	100.0	99.7	97.9	95.0	90.2	74.9	47.0	19.5	78.1	62
	09-11	100.0	99.8	97.0	93.3	80.3	53.3	29.8	14.9	4.5	62.9	62
	12-14	100.0	98.5	95.0	81.5	52.4	28.9	15.0	8.5	3.2	53.6	59
	15-17	100.0	97.7	95.2	76.3	43,9	25.0	14.7	9,2	3.3	52.1	62
	18-20	100.0	99.0	96,7	89.9	64.9	40.8	23.2	13.6	0.4	59.0	61
	21-23	100.0	100.0	99.2	97.7	94.0	84.0	61.4	29.3	13.3	73.8	61
	<u> </u>											
10	TALS	100.0	99.4	97.9	92.0	78.5	64.3	50+1	32.8	16.0	68.7	491

USAFETAC POM 0-87-5 (OL A).

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RELATIVE HUMIDITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT

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CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	4OURS			PERCENTAG	E FREQUENCY	OF RELATIVE	HUMIDITY GR	EATER THAN			MEAN	TOTAL NO OF
MONTH	(LST)	10%	20%	30%	40%	50%	60%	70*•	80%	90%	RELATIVE	NO OF OAS
AUG	00-02	100.0	100.0	100.0	100.0	99.8	96.1	87.0	64.5	34.5	R3.9	614
	03-05	100.0	100.0	100.0	99.8	99.7	98.1	93,5	76.0	51.4	88.0	629
	06-08	100.0	100.0	100.0	100.0	98.7	90.9	77.9	24.7	34.4	81.5	634
	09-11	100.0	100.0	100.0	94.2	80.5	60.2	37.5	18.1	7,5	65.4	65
	12-14	100.0	99.8	95.5	77.2	52.7	30.6	12.9	10.7	3.3	54.2	628
·	15-17	100.0	100.0	93.2	72.9	47.4	26.0	15.8	7.3	2.2	51.9	631
	18-20	100.0	100.0	98.7	90.2	71.7	49.9	28.8	16,4	7.0	61.9	633
	21-23	100.0	100.0	100.0	99,5	96.5	83.7	66.8	38.9	16.9	75.9	631
το	TALS	100.0	100.0	98.4	91.7	80.9	66.9	53.0	35.8	19.7	70.3	505

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RELATIVE HUMIDITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT

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SEP

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	HOURS			PERCENTAG	E FREQUENC	OF RELATIVE	HUMIDITY G	REATER THAN			MEAN	TOTAL
нтиом	(LST)	10%	20%	30%	40%	50%	60%	70%	80%	90°∙	HUMIDITY	NO OF OBS.
SEP	00-02	100.0	100.0	100.0	100.0	100.0	99.3	97.2	84.7	56.6	90.1	602
	03-05	100.0	100.0	100.0	100.0	100.0	99.8	99.2	92.8	72.2	92.9	612
	00-08	100.0	100.0	100.0	100.0	100.0	99.5	96.3	80.2	54,1	89.1	616
·	09-11	100.0	100.0	100.0	99.4	95.%	82.4	61.4	31.7	14.1	74.0	619
	12-14	100.0	100.0	99,7	94,2	79.2	50.4	29,6	12.4	4.6	62.4	605
	15-17	100.0	100.0	99.5	91.6	74.0	49,4	28.3	11.1	4.7	61.4	622
······································	18-20	100.6	100.0	100.0	99,3	94.1	82.5	62.6	34,1	12.2	73.8	607
	21-23	100.0	100.0	100.0	100.0	99.8	97.0	90.0	64.3	34.2	84.0	603
		 	 									
						ļ						
10	TALS	100.0	100.0	99.9	98.1	92.8	82.5	70.6	51.4	31.6	78.5	4886

USAFETAC POM 0-87-5 (OL A)

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RELATIVE HUMIDITY

35032 RHEIN-MAIN APT GERMANY/FRANKFUFT

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MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVAYIONS)

	HOURS			PERCENTAG	E FREQUENCY	OF RELATIVE	HUMIDITY GR	EATER THAN			MEAN RELATIVE	TOTAL NO OF
MONTH	(LS.T)	10%	20%	30%	40+	56%	60%	70%	80%	90°•	HUMIDITY	SAC
ncT	00-02	100.0	100.0	100.0	100.0	100.0	100.0	98.7	90.5	62.4	91.5	503
	03=05	100.0	100.0	10v.0	100.0	100.0	99.8	79.5	93.0	71.4	93.1	625
	06-08	100.0	100.0	100.0	100.0	100.0	100.0	98.9	93	69.4	92.4	116
	09-11	100.0	100.0	100.0	100.0	98.C	91.5	80.5	59.4	30.1	81.8	645
	12-14	100.0	100.0	99.8	97.8	89.7	73.0	53,5	28.6	11.6	70.9	630
	15-17	100.0	100.0	100.0	97,7	90.2	74.2	57.0	29.4	12.2	71.5	640
	18-20	100.0	100.0	100.0	100.0	100.0	96.2	80.1	57.6	29.6	82.5	635
·	21-23	100.0	100.0	100.0	160.0	100.0	99.8	96.1	79.7	52.3	88.4	640
	-											
to	TALS	100.0	100.0	100.0	99.4	97.2	91.8	83,8	65.9	42.4	84.0	5049

USAFETAC POM 0-87-5 (OL A)

DATA PROCESSING BRANCH
ETAC/USAF
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

TO STATION NAME

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	HOURS			PERCENTAG	E FREQUENCY	OF RELATIVE	HUMIDITY G	EATER THAN			MEAN RELATIVE	TOTAL
MONTH	(LST)	10%	20%	30%	40%	50%	60%	70%	80%	90*•	HUMIDITY	NO OF OBS
NOV	00-02	100.0	100,0	100.0	100.0	99.8	99.5	96,9	85.3	58.9	90.0	58
	03-05	100.0	100.0	100.0	100.0	100.0	99.8	97.6	88.1	64.8	91.4	630
	06-08	100.0	100.0	100.0	100.c	100.0	99.8	97.6	89.5	62.9	90.9	62
	09-11	100.0	100.0	100.0	100.0	99.7	98.0	90.8	74.4	41.0	86.5	610
	12-14	100.0	100.0	100.0	99.7	99.0	92.5	74.3	51.4	23.9	79.8	60
	15-17	100.0	100.0	100.0	99.7	99.2	93.9	78,7	52,5	24.6	80.5	610
	18-20	100.0	100.0	100.0	100.0	99.7	98.2	91.5	70,9	38.0	85.8	62
	21-23	100.0	100.0	100.0	100.0	99.7	99.2	94.7	79.4	51.9	88.5	61
		-			-	ļ						
10	TALS	100.0	100.0	100.0	99.9	99.5	97.6	90.3	73.9	45.9	86.7	490

USAFETAC FORM 0-87-5 (OL A)

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RELATIVE HUMIDITY

35032 RHEIN-MAIN APT GERMANY/FRANKFURT

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CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

нтись	HOURS (LST)		· · · · · · · · · · · · · · · · · · ·	PERCENTAC	SE FREQUENC	Y OF RELATIVE	HUMIDITY G	REATER THAN			MEAN	TOTAL
	(LST)	10%	20%	30%	40%	50%	60%	70%	80%	90%	RELATIVE HUMIDITY	NO O
EC	00-02	100.0	100.0	100.0	100.0	100.0	99.7	95,7	25.7	52,1	88.7	6
	03-05	100.0	100.0	100.0	100.0	100.5	99.2	96.9	66.8	53.8	89.1	6
	06-08	100.0	100.0	100.0	100.0	100,0	99.7	95.9	85.6	49.0	88.6	6
	09-11	100.0	100.0	100.0	100.0	100.0	98.9	94.1	77.1	38,1	86.3	6
	12-14	100.0	100.0	100.0	99.7	99.5	95.3	85.5	01.1	25,9	82.1	6
	15-17	100.0	100.0	100.0	100.0	99.4	97.5	88.5	68.6	27.7	83.4	6
	18-20	100.0	100.0	100.0	100.0	100.0	99.2	93.4	79.0	37.7	86.2	6
	21-23	100.0	100.0	100.0	100.0	100.0	99.7	96.2	82.8	47.2	87.8	6
101/	ALS	100.0	100.0	100.0	100.0	99.9	∀8.7	93.3				51

USAFETAC PORM 0-87-5 (OL A)

U S AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER

PART F

PRESSURE SUMMARY

Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times GCT. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables, although the overall period is limited by service as indicated below.

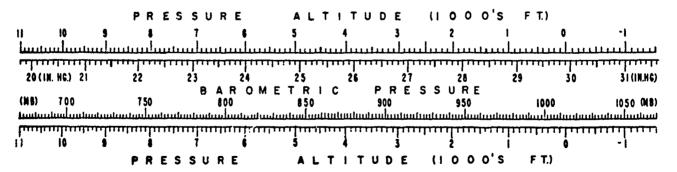
NOTES: Station pressure not reported for all services until late in 1945.

Station pressure reported only at 6-hourly times for Air Force stations from Jan 64 - Jul 65.

METAR stations do not report Sea-level pressure for the period Jan 68 - Dec 70.

- 1. Station pressure is presented in the table in inches of mercury.
- 2. Sea-level pressure is presented in millibars.

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressurealtitude in 1000's of feet. This scale is an enlarged model of the pressure-altitude scale in the Smithsonian Meteorological Tables.



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MEANS AND STANDARD DEVIATIONS

STATION PRESSURE IN INCHES HG FROM HOURLY OBSERVATIONS

35032	RHEIN-MAIN	APT	GERHANY/FRANKFURT	71-76

STATION NAME

S (L S T)		JAN	FEB	MAR	APR	MAY /	JUN	JUL	AUG	SEP	OC1_	NOV	DEC	ANNUAL
	MEAN	29.667	29.651	29.607				29.594	29.625	29.6192	9.6792	9.6512		29.62
00	S D	.250	325	•249	.186	.173	.165	.138	.131	• 200	.278	. 265	.347	.23
	TOTAL 035	160	148	156	151	160	159	158	166	163	139	130	160	185
	MEAN	29.666	29.639	29.592	9.543	9.541	9.578	9.588	29.6182	9.6092	9.6222	9.6132	9.699	29.61
03	S D		.324									.275	342	. 2
•	TOTAL OBS	1		168					165		171	161	177	
								·						
	MEAN												9.690	
06	SD	.248			1	.183		•139				.272	.338	.2
	TOTAL OBS	159	149	171	161	170	163	167	171	163	168	166	168	18
	MEAN	29.657	29-670	29.627	29.561	29.556	9 602	29.620	9.645	9.634	9.6482	9.6342	9.728	29.6
09	S D	.251	1			180			.133				.332	
	TOTAL OBS											165	!	20
	MEAN												5.713	
12	S D	.246				- 1			.128				.341	. 2
	TOTAL OBS	165	148	173	162	169	162	160	170	156	164	158.	169	15
	MEAN	29.663	29.642	29.584	29.506	29.525	29.556	9.574	29.606	9.599	9.6262	9.5972	9.699	29.5
15	S D	.234							.126				.338	2
	TOTAL OBS	164	145	166							176	156	175	19
	MEAN	29.660	29.664	29.593	29.514	29.511	9 567	29.571	99.594	9.608	9.4242	9.6192	9.707	29.6
18	S D.	.252								201				
	TOTAL OBS		1 ;										171	i
												· · · · · · · · · · · · · · · · · · ·		-
	MEAN		29,676					Τ-						29.6
21	5 D	.258											.334	. 2
	TOTAL OBS	169	153	165	156	173	160	163	173	158	170	164	169	19

USAPETAC FORM 0-89-5 (OLA)

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MEANS AND STANDARD DEVIATIONS

SEA LEVEL PRESSURE IN MBS FROM HOURLY OBSERVATIONS

35032	RHEIN-HAIN APT GERMANY/FRANKFURT	67-76
STATION	STATION NAME	YEARS

HRS (LST)		JAN	FEB	WAK	APR	MAY	אענ	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
	MEAN	1017.7												1016.
00	S D	9.916			8.202	6.668	5.405	5.539	4.936	6.927	8.9171	0.3201	1.307	8 57
	TOTAL OBS	306	268	305	295	307	297	304	310	298	309	298	294	359
								 						
	MEAN	1017.5												1016.
03	S D										9.0371			8.53
	TOTAL OBS	308	266	309	298	308	297	303	305	298	308	300	<u> </u>	359
														
	MEAN	1017.2)												1016.
06	5 D										9.2591			8,64
	TOTAL OBS	308	270	307	294	307	299	304	304	297	309	299	293	359
			!											
	MEAN	1018.0												1017.
09	5 D										9.4131			B.61
	TOTAL OBS	309	269	309	299	308	297	301	309	300	305	298	295	359
								-	1					
	MEAN										1018.61			1016.
12	5 D										9.2781			8,60
	TOTAL OBS	308	269	309	296	309	299	301	309	297	309	297_	294_	359
								ļ						
	MEAN	1017.0												1015.
15	\$ D										9.2581			8,52
	TOTAL OSS	310	268	306	298	309	298	303	306	297	306	298	293_	359
								<u> </u>	1					
	MEAN										018-41			1015.
18	S D										8.8661			8.47
	TOTAL OBS	308	270	310	298	309	298	304	310	299	30€	<u> 297. </u>	293_	360
								 						
	MEAN	1017.7	1010.0	1012.7	1014.4	1014.4	1016.4	1016.7	1016.3	1017.1	1018-81	016.31	019.2	1016.
21	S D				7.819	6.243					8.9801			8.45
	TOTAL OBS	309	271	304	297	307	298	306	30B	296	308	297	290_	359
									-				-10:	101/
ALL	MEAN	1017.5	1015.8	1012.7	1014.3	1014.3	1010.3	1010.8	1010.5	1016.9	1018.51	016-21	019.1	1016.
HOURS	/S D										9.1231			8.56
	TOTAL ORS	2440	2131	2437	2370	2404	2343	2426	2401	2352	2460	2384	2343	2875

USAFETAC FORM 0.89.5 (OLA).